GenCore version 5.1.6

OM protein - nucleic search, using frame_plus_p2n model

Run on: May 13, 2004, 07:32:28 ; Search time 344.522 Seconds
(without alignments)
1501.609 Million cell updates/sec

Title: US-09-724-409-7
Perfect score: 610
Sequence: 1 EVQLQQSGPDLVKPGASVKI.....YCAREGIYWWGHGTTLTVSS 114

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 2947324 seqs, 2269024515 residues

Total number of hits satisfying chosen parameters: 5894648

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+_p2n.model -DEV=xlh
-Q=/cgn2_1/USPTO_spool/US09724409/runat_12052004_081345_2745/app_query.fasta_1.526
-DB=Published_Applications_NA -QFMT=fastap -SUFFIX=p2n.rnpb -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100
-THR_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US09724409_@CGN_1_1_580_@runat_12052004_081345_2745
-NCPU=6 -ICPU=3 -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100
-LONGLOG -DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published_Applications_NA:*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq2:*
14: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
15: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
16: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
17: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
18: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	504	82.6	729	15	US-10-060-585-1	Sequence 1, Appli
	2	504	82.6	1467	15	US-10-060-585-3	Sequence 3, Appli
	3	504	82.6	1518	13	US-10-104-522-5	Sequence 5, Appli
	4	504	82.6	1518	15	US-10-060-585-5	Sequence 5, Appli
	5	504	82.6	1807	15	US-10-060-585-2	Sequence 2, Appli
	6	504	82.6	2090	13	US-10-104-522-6	Sequence 6, Appli
	7	504	82.6	2090	15	US-10-060-585-6	Sequence 6, Appli
	8	492.5	80.7	482	9	US-09-881-823-19	Sequence 19, Appl
	9	490	80.3	366	13	US-10-372-481-18	Sequence 18, Appl
	10	490	80.3	366	16	US-10-371-797-18	Sequence 18, Appl
	11	488	80.0	443	15	US-10-195-752-3	GENERAL INFORMA
	12	487	79.8	411	13	US-10-462-062-6	Sequence 6, Appli
	13	487	79.8	411	13	US-10-462-062-7	Sequence 7, Appli
	14	483.5	79.3	345	10	US-09-929-665-6	Sequence 6, Appli
C	15	483.5	79.3	345	10	US-09-929-665-7	Sequence 7, Appli
	16	483.5	79.3	345	10	US-09-929-546-6	Sequence 6, Appli
C	17	483.5	79.3	345	10	US-09-929-546-7	Sequence 7, Appli
	18	483.5	79.3	391	10	US-09-929-665-1	Sequence 1, Appli
C	19	483.5	79.3	391	10	US-09-929-665-2	Sequence 2, Appli
	20	483.5	79.3	391	10	US-09-929-546-1	Sequence 1, Appli
C	21	483.5	79.3	391	10	US-09-929-546-2	Sequence 2, Appli
	22	480.5	78.8	795	13	US-10-114-716A-47	Sequence 47, Appl
	23	480	78.7	449	15	US-10-195-752-1	GENERAL INFORMA
	24	477	78.2	405	13	US-10-389-417-59	Sequence 59, Appl
	25	477	78.2	405	13	US-10-452-357-68	Sequence 68, Appl
	26	477	78.2	405	16	US-10-389-155-59	Sequence 59, Appl
	27	473	77.5	360	16	US-10-372-719-4	Sequence 4, Appli
	28	473	77.5	360	16	US-10-372-719-22	Sequence 22, Appl
	29	469	76.9	916	9	US-09-813-659-29	Sequence 29, Appl
	30	469	76.9	916	16	US-10-283-610A-29	Sequence 29, Appl
	31	467	76.6	1803	9	US-09-480-236-2	Sequence 2, Appli
	32	465.5	76.3	414	13	US-10-389-417-71	Sequence 71, Appl
	33	465.5	76.3	414	13	US-10-452-357-84	Sequence 84, Appl
	34	465.5	76.3	414	16	US-10-389-155-71	Sequence 71, Appl
	35	465.5	76.3	1314	9	US-09-903-327A-5	Sequence 5, Appli
	36	465.5	76.3	1516	9	US-09-903-327A-1	Sequence 1, Appli
	37	464	76.1	372	13	US-10-007-790-1	Sequence 1, Appli
	38	463.5	76.0	402	9	US-09-982-107-13	Sequence 13, Appl
	39	463.5	76.0	717	8	US-08-940-544-3	Sequence 3, Appli
	40	463.5	76.0	717	15	US-10-075-947A-1	Sequence 1, Appli
	41	463.5	76.0	1176	15	US-10-075-947A-3	Sequence 3, Appli
	42	463.5	76.0	2059	9	US-09-807-721-1	Sequence 1, Appli
	43	462.5	75.8	409	9	US-09-956-206A-46	Sequence 46, Appl
	44	460.5	75.5	339	9	US-09-924-099-12	Sequence 12, Appl
	45	460.5	75.5	412	9	US-09-924-099-28	Sequence 28, Appl

ALIGNMENTS

RESULT 1
US-10-060-585-1
; Sequence 1, Application US/10060585
; Publication No. US20030083290A1
; GENERAL INFORMATION:
; APPLICANT: Kingsman, Alan J.
; APPLICANT: Bebbington, Christopher R.
; APPLICANT: Carroll, Miles W.
; APPLICANT: Ellard, Fiona M.
; APPLICANT: Kingsman, Susan M.
; APPLICANT: Myers, Kevin A.
; TITLE OF INVENTION: VECTOR SYSTEM
; FILE REFERENCE: DYOU23.001CP1
; CURRENT APPLICATION NUMBER: US/10/060,585
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 09/445375
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: GB 9711579.4
; PRIOR FILING DATE: 1997-06-04
; PRIOR APPLICATION NUMBER: GB 9713150.2
; PRIOR FILING DATE: 1997-06-20
; PRIOR APPLICATION NUMBER: GB 9714230.1
; PRIOR FILING DATE: 1997-07-04

```
;  PRIOR APPLICATION NUMBER: PCT/GB00/04317
;  PRIOR FILING DATE: 2000-11-13
;  PRIOR APPLICATION NUMBER: PCT/GB99/03859
;  PRIOR FILING DATE: 1999-11-18
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
;   LENGTH: 729
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: 5T4 ScFv
US-10-060-585-1

Alignment Scores:
Pred. No.:                2.16e-57        Length:         729
Score:                    504.00          Matches:        98
Percent Similarity:       87.50%          Conservative:   7
Best Local Similarity:    81.67%          Mismatches:     9
Query Match:              82.62%          Indels:         6
DB:                       15              Gaps:           1

US-09-724-409-7 (1-114) x US-10-060-585-1 (1-729)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GAGGTCCAGCTTCAGCAGTCTGGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 60

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||||||||||||||||:::||||||||||||||||||||||
Db         61 TCCTGCAAGGCTTCTGGTTACTCATTCACTGGCTACTACATGCACTGGGTGAAGCAGAGC 120

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||||:::   ||||||||||||   |||   |||
Db        121 CATGGAAAGAGCCTTGAGTGGATTGGACGTATTAATCCTAACAATGGTGTTACTCTCTAC 180

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||   ||||||||||||||||||||||||||||:::|||||||||
Db        181 AACCAGAAATTCAAGGACAAGGCCATATTAACTGTAGACAAGTCATCCACCACAGCCTAC 240

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 ATGGAGCTCCGCAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCTACT 300

Qy        101 IleTyr------------------TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
              :::                   :::||||||     |||::::::||||||||||||
Db        301 ATGATTACGAACTATGTTATGGACTACTGGGGTCAAGTAACCTCAGTCACCGTCTCCTCA 360

RESULT 2
US-10-060-585-3
; Sequence 3, Application US/10060585
; Publication No. US20030083290A1
; GENERAL INFORMATION:
;  APPLICANT: Kingsman, Alan J.
;  APPLICANT:  Bebbington, Christopher R.
;  APPLICANT:  Carroll, Miles W.
;  APPLICANT:  Ellard, Fiona M.
;  APPLICANT:  Kingsman, Susan M.
;  APPLICANT:  Myers, Kevin A.
;  TITLE OF INVENTION: VECTOR SYSTEM
;  FILE REFERENCE: DYOU23.001CP1
;  CURRENT APPLICATION NUMBER: US/10/060,585
;  CURRENT FILING DATE:  2002-09-06
;  PRIOR APPLICATION NUMBER: US 09/445375
;  PRIOR FILING DATE: 1998-06-04
;  PRIOR APPLICATION NUMBER: GB 9711579.4
;  PRIOR FILING DATE: 1997-06-04
;  PRIOR APPLICATION NUMBER: GB 9713150.2
;  PRIOR FILING DATE: 1997-06-20
;  PRIOR APPLICATION NUMBER: GB 9714230.1
;  PRIOR FILING DATE: 1997-07-04
;  PRIOR APPLICATION NUMBER: PCT/GB00/04317
;  PRIOR FILING DATE: 2000-11-13
;  PRIOR APPLICATION NUMBER: PCT/GB99/03859
;  PRIOR FILING DATE: 1999-11-18
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
;   LENGTH: 1467
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: B7-1.5T4.1
US-10-060-585-3

Alignment Scores:
Pred. No.:                5.54e-57        Length:         1467
Score:                    504.00          Matches:        98
Percent Similarity:       87.50%          Conservative:   7
Best Local Similarity:    81.67%          Mismatches:     9
Query Match:              82.62%          Indels:         6
DB:                       15              Gaps:           1

US-09-724-409-7 (1-114) x US-10-060-585-3 (1-1467)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        739 GAGGTCCAGCTTCAGCAGTCTGGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 798

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||||||||||||||||||:::||||||||||||||||||||
Db        799 TCCTGCAAGGCTTCTGGTTACTCATTCACTGGCTACTACATGCACTGGGTGAAGCAGAGC 858

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||||||:::   ||||||||||||   |||   |||
Db        859 CATGGAAAGAGCCTTGAGTGGATTGGACGTATTAATCCTAACAATGGTGTTACTCTCTAC 918

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||   ||||||||||||||||||||||||||||:::|||||||||
Db        919 AACCAGAAATTCAAGGACAAGGCCATATTAACTGTAGACAAGTCATCCACCACAGCCTAC 978

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        979 ATGGAGCTCCGCAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCTACT 1038

Qy        101 IleTyr------------------TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
              :::                   :::||||||     |||::::::||||||||||||
Db       1039 ATGATTACGAACTATGTTATGGACTACTGGGGTCAAGTAACCTCAGTCACCGTCTCCTCA 1098

RESULT 3
US-10-104-522-5
; Sequence 5, Application US/10104522
; Publication No. US20030018004A1
; GENERAL INFORMATION:
;  APPLICANT: Kingsman, Susan M.
;  APPLICANT:  Bebbington, C.R.
;  APPLICANT:  Ellard, Fiona M.
;  APPLICANT:  Carroll, Miles W.
;  TITLE OF INVENTION: VECTOR
;  FILE REFERENCE: DYOU23.001DV1
;  CURRENT APPLICATION NUMBER: US/10/104,522
;  CURRENT FILING DATE:  2002-03-22
;  PRIOR APPLICATION NUMBER: 09/445375
;  PRIOR FILING DATE: 2000-03-21
;  PRIOR APPLICATION NUMBER: PCT/GB98/01627
;  PRIOR FILING DATE: 1998-06-04
;  PRIOR APPLICATION NUMBER: GB9711579.4
;  PRIOR FILING DATE: 1997-06-04
;  PRIOR APPLICATION NUMBER: GB9713150.2
;  PRIOR FILING DATE: 1997-06-20
;  PRIOR APPLICATION NUMBER: GB9714230.1
;  PRIOR FILING DATE: 1997-07-04
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 1518
```

; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: pBSII/Leader/scFv/HG1.
US-10-104-522-5

Alignment Scores:

Pred. No.:	5.8e-57	Length:	1518
Score:	504.00	Matches:	98
Percent Similarity:	87.50%	Conservative:	7
Best Local Similarity:	81.67%	Mismatches:	9
Query Match:	82.62%	Indels:	6
DB:	13	Gaps:	1

US-09-724-409-7 (1-114) x US-10-104-522-5 (1-1518)

```
Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        787 GAGGTCCAGCTTCAGCAGTCTGGACCTGACCTGGTGAAGCCTGGAGCTTCAGTGAAGATA 846

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||||||||||||||||:::||||||||||||||||||||||
Db        847 TCCTGCAAGGCTTCTGGTTACTCATTCACTGGCTACTACATGCACTGGGTGAAGCAGAGC 906

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||||||:::  ||||||||||||  |||  |||||||
Db        907 CATGGAAAGAGCCTTGAGTGGATTGGACGTATTAATCCTAACAATGGTGTTACTCTCTAC 966

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||  ||||||||||||||||||||||||||||:::|||||||||||||
Db        967 AACCAGAAATTCAAGGACAAGGCCATATTAACTGTAGACAAGTCATCCACCACAGCCTAC 1026

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1027 ATGGAGCTCCGCAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCTACT 1086

Qy        101 IleTyr-----------------TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
              :::                 :::|||||||     |||::::::||||||||||||||
Db       1087 ATGATTACGAACTATGTTATGGACTACTGGGGTCAAGTAACTTCAGTCACCGTCTCTTCA 1146
```

RESULT 4
US-10-060-585-5
; Sequence 5, Application US/10060585
; Publication No. US20030083290A1
; GENERAL INFORMATION:
; APPLICANT: Kingsman, Alan J.
; APPLICANT: Bebbington, Christopher R.
; APPLICANT: Carroll, Miles W.
; APPLICANT: Ellard, Fiona M.
; APPLICANT: Kingsman, Susan M.
; APPLICANT: Myers, Kevin A.
; TITLE OF INVENTION: VECTOR SYSTEM
; FILE REFERENCE: DYOU23.001CP1
; CURRENT APPLICATION NUMBER: US/10/060,585
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 09/445375
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: GB 9711579.4
; PRIOR FILING DATE: 1997-06-04
; PRIOR APPLICATION NUMBER: GB 9713150.2
; PRIOR FILING DATE: 1997-06-20
; PRIOR APPLICATION NUMBER: GB 9714230.1
; PRIOR FILING DATE: 1997-07-04
; PRIOR APPLICATION NUMBER: PCT/GB00/04317
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: PCT/GB99/03859
; PRIOR FILING DATE: 1999-11-18
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 1518
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: B7 link ScFv sequence
US-10-060-585-5

Alignment Scores:

Pred. No.:	5.8e-57	Length:	1518
Score:	504.00	Matches:	98
Percent Similarity:	87.50%	Conservative:	7
Best Local Similarity:	81.67%	Mismatches:	9
Query Match:	82.62%	Indels:	6
DB:	15	Gaps:	1

US-09-724-409-7 (1-114) x US-10-060-585-5 (1-1518)

```
Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        787 GAGGTCCAGCTTCAGCAGTCTGGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 846

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||||||||||||||||:::||||||||||||||||||||||
Db        847 TCCTGCAAGGCTTCTGGTTACTCATTCACTGGCTACTACATGCACTGGGTGAAGCAGAGC 906

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||||||:::  ||||||||||||  |||  |||||||
Db        907 CATGGAAAGAGCCTTGAGTGGATTGGACGTATTAATCCTAACAATGGTGTTACTCTCTAC 966

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||  ||||||||||||||||||||||||||||:::|||||||||||||
Db        967 AACCAGAAATTCAAGGACAAGGCCATATTAACTGTAGACAAGTCATCCACCACAGCCTAC 1026

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1027 ATGGAGCTCCGCAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCTACT 1086

Qy        101 IleTyr-----------------TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
              :::                 :::|||||||     |||::::::||||||||||||||
Db       1087 ATGATTACGAACTATGTTATGGACTACTGGGGTCAAGTAACTTCAGTCACCGTCTCTTCA 1146
```

RESULT 5
US-10-060-585-2
; Sequence 2, Application US/10060585
; Publication No. US20030083290A1
; GENERAL INFORMATION:
; APPLICANT: Kingsman, Alan J.
; APPLICANT: Bebbington, Christopher R.
; APPLICANT: Carroll, Miles W.
; APPLICANT: Ellard, Fiona M.
; APPLICANT: Kingsman, Susan M.
; APPLICANT: Myers, Kevin A.
; TITLE OF INVENTION: VECTOR SYSTEM
; FILE REFERENCE: DYOU23.001CP1
; CURRENT APPLICATION NUMBER: US/10/060,585
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 09/445375
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: GB 9711579.4
; PRIOR FILING DATE: 1997-06-04
; PRIOR APPLICATION NUMBER: GB 9713150.2
; PRIOR FILING DATE: 1997-06-20
; PRIOR APPLICATION NUMBER: GB 9714230.1
; PRIOR FILING DATE: 1997-07-04
; PRIOR APPLICATION NUMBER: PCT/GB00/04317
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: PCT/GB99/03859
; PRIOR FILING DATE: 1999-11-18
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1807
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: 5T4Sab1

US-10-060-585-2

Alignment Scores:

Pred. No.:	7.33e-57	Length:	1807
Score:	504.00	Matches:	98
Percent Similarity:	87.50%	Conservative:	7
Best Local Similarity:	81.67%	Mismatches:	9
Query Match:	82.62%	Indels:	6
DB:	15	Gaps:	1

US-09-724-409-7 (1-114) x US-10-060-585-2 (1-1807)

```
Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         69 GAGGTCCAGCTTCAGCAGTCTGGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 128

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||||||||||||||||:::|||||||||||||||||||||
Db        129 TCCTGCAAGGCTTCTGGTTACTCATTCACTGGCTACTACATGCACTGGGTGAAGCAGAGC 188

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||||:::   ||||||||||||   |||   |||
Db        189 CATGGAAAGAGCCTTGAGTGGATTGGACGTATTAATCCTAACAATGGTGTTACTCTCTAC 248

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||   ||||||||||||||||||||||||||||:::|||||||||
Db        249 AACCAGAAATTCAAGGACAAGGCCATATTAACTGTAGACAAGTCATCCACCACAGCCTAC 308

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        309 ATGGAGCTCCGCAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCTACT 368

Qy        101 IleTyr------------------TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
              :::                  :::||||||     |||::::::|||||||||||
Db        369 ATGATTACGAACTATGTTATGGACTACTGGGGTCAAGTAACCTCAGTCACCGTCTCCTCA 428
```

RESULT 6
US-10-104-522-6
; Sequence 6, Application US/10104522
; Publication No. US20030018004A1
; GENERAL INFORMATION:
; APPLICANT: Kingsman, Susan M.
; APPLICANT: Bebbington, C.R.
; APPLICANT: Ellard, Fiona M.
; APPLICANT: Carroll, Miles W.
; TITLE OF INVENTION: VECTOR
; FILE REFERENCE: DYOU23.001DV1
; CURRENT APPLICATION NUMBER: US/10/104,522
; CURRENT FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 09/445375
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: PCT/GB98/01627
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: GB9711579.4
; PRIOR FILING DATE: 1997-06-04
; PRIOR APPLICATION NUMBER: GB9713150.2
; PRIOR FILING DATE: 1997-06-20
; PRIOR APPLICATION NUMBER: GB9714230.1
; PRIOR FILING DATE: 1997-07-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 2090
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: 5T4 scFv-human IgE fusion construct.
US-10-104-522-6

Alignment Scores:

Pred. No.:	8.91e-57	Length:	2090
Score:	504.00	Matches:	98
Percent Similarity:	87.50%	Conservative:	7
Best Local Similarity:	81.67%	Mismatches:	9
Query Match:	82.62%	Indels:	6
DB:	13	Gaps:	1

US-09-724-409-7 (1-114) x US-10-104-522-6 (1-2090)

```
Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         69 GAGGTCCAGCTGCAGCAGTCTGGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 128

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||||||||||||||||:::|||||||||||||||||||||
Db        129 TCCTGCAAGGCTTCTGGTTACTCATTCACTGGCTACTACATGCACTGGGTGAAGCAGAGC 188

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||||:::   ||||||||||||   |||   |||
Db        189 CATGGAAAGAGCCTTGAGTGGATTGGACGTATTAATCCTAACAATGGTGTTACTCTCTAC 248

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||   ||||||||||||||||||||||||||||:::|||||||||
Db        249 AACCAGAAATTCAAGGACAAGGCCATATTAACTGTAGACAAGTCATCCACCACAGCCTAC 308

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        309 ATGGAGCTCCGCAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCTACT 368

Qy        101 IleTyr------------------TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
              :::                  :::||||||     |||::::::|||||||||||
Db        369 ATGATTACGAACTATGTTATGGACTACTGGGGTCAAGTAACTTCAGTCACCGTCTCTTCA 428
```

RESULT 7
US-10-060-585-6
; Sequence 6, Application US/10060585
; Publication No. US20030083290A1
; GENERAL INFORMATION:
; APPLICANT: Kingsman, Alan J.
; APPLICANT: Bebbington, Christopher R.
; APPLICANT: Carroll, Miles W.
; APPLICANT: Ellard, Fiona M.
; APPLICANT: Kingsman, Susan M.
; APPLICANT: Myers, Kevin A.
; TITLE OF INVENTION: VECTOR SYSTEM
; FILE REFERENCE: DYOU23.001CP1
; CURRENT APPLICATION NUMBER: US/10/060,585
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 09/445375
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: GB 9711579.4
; PRIOR FILING DATE: 1997-06-04
; PRIOR APPLICATION NUMBER: GB 9713150.2
; PRIOR FILING DATE: 1997-06-20
; PRIOR APPLICATION NUMBER: GB 9714230.1
; PRIOR FILING DATE: 1997-07-04
; PRIOR APPLICATION NUMBER: PCT/GB00/04317
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: PCT/GB99/03859
; PRIOR FILING DATE: 1999-11-18
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 2090
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: 5T4 ScFv - human IgE fusion
US-10-060-585-6

Alignment Scores:

Pred. No.:	8.91e-57	Length:	2090
Score:	504.00	Matches:	98
Percent Similarity:	87.50%	Conservative:	7
Best Local Similarity:	81.67%	Mismatches:	9
Query Match:	82.62%	Indels:	6

```
DB:                   15              Gaps:           1

US-09-724-409-7 (1-114) x US-10-060-585-6 (1-2090)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         69 GAGGTCCAGCTGCAGCAGTCTGGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 128

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        129 TCCTGCAAGGCTTCTGGTTACTCATTCACTGGCTACTACATGCACTGGGTGAAGCAGAGC 188

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||:::  |||||||||||    |||    |||
Db        189 CATGGAAAGAGCCTTGAGTGGATTGGACGTATTAATCCTAACAATGGTGTTACTCTCTAC 248

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||    ||||||||||||||||||||||||||||||:::||||||||
Db        249 AACCAGAAATTCAAGGACAAGGCCATATTAACTGTAGACAAGTCATCCACCACAGCCTAC 308

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        309 ATGGAGCTCCGCAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCTACT 368

Qy        101 IleTyr------------------TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
              :::                     :::||||||    |||::::::|||||||||||
Db        369 ATGATTACGAACTATGTTATGGACTACTGGGGTCAAGTAACTTCAGTCACCGTCTCTTCA 428
```

RESULT 8
US-09-881-823-19
; Sequence 19, Application US/09881823
; Patent No. US20020068066A1
; GENERAL INFORMATION:
; APPLICANT: SHI, WENYUAN
; APPLICANT: ANDERSON, MAXWELL
; APPLICANT: MORRISON, SHERIE
; APPLICANT: TRINH, RYAN
; APPLICANT: WIMS, LETITIA
; APPLICANT: CHEN, LI
; TITLE OF INVENTION: Method for the Treatment and Prevention of Dental Caries
; FILE REFERENCE: 22851-032
; CURRENT APPLICATION NUMBER: US/09/881,823
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 07/378,577
; PRIOR FILING DATE: 1999-08-20
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 19
; LENGTH: 482
; TYPE: DNA
; ORGANISM: Murine
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (27)..(482)
US-09-881-823-19

```
Alignment Scores:
Pred. No.:              4.23e-56      Length:         482
Score:                  492.50        Matches:        98
Percent Similarity:     86.67%        Conservative:   6
Best Local Similarity:  81.67%        Mismatches:     10
Query Match:            80.74%        Indels:         7
DB:                     9             Gaps:           1

US-09-724-409-7 (1-114) x US-09-881-823-19 (1-482)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              |||||||||||||||||||||||||||:::||||||||||||||||||||||||||||||
Db         84 GAGGTCCAGCTGCAACAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 143

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||    |||||||:::||||||    |||    :::||||||||||||||||||
Db        144 TCCTGCAAGACTTCTGGATACACATTCACTGAATACAACATGCACTGGGTGAAACAGAGC 203

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              |||||||||||||||||||||||||||    :::   ||||||||||||||||||||||
Db        204 CATGGAAAGAGCCTTGAGTGGATTGGAGGTATTAATCCTAACAATGGTGGTACTAGTTAC 263

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||    ||||||    ||||||||||||||||||||||||||||||
Db        264 AACCAGAAGTTCAAGGCCAAGGCCACATTGACTGTAGACAAGTCCTCCAGCACAGCCTAC 323

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              |||||||||||:::||||||||||||||||||||||||||||||||||||||    |||
Db        324 ATGGAGCTCCGCAACCTGACATCTGAGGATTCTGCAGTCTATTACTGTGCAAGGGG-GGT 382

Qy        101 IleTyrTrp------------------TrpGlyHisGlyThrThrLeuThrValSerSer 114
              :::  |||                   ||||||   ||||||||||||||||||||||
Db        383 TTATGATGGTTACTCCCTTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 442
```

RESULT 9
US-10-372-481-18
; Sequence 18, Application US/10372481
; Publication No. US20030202975A1
; GENERAL INFORMATION:
; APPLICANT: Tedder, Thomas F.
; TITLE OF INVENTION: REAGENTS AND TREATMENT METHODS FOR AUTOIMMUNE DISEASES
; FILE REFERENCE: 5405.306
; CURRENT APPLICATION NUMBER: US/10/372,481
; CURRENT FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: PCT/US03/05549
; PRIOR FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US 60/420,472
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/359,419
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 18
; LENGTH: 366
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (173)..(173)
; OTHER INFORMATION: n is I
US-10-372-481-18

```
Alignment Scores:
Pred. No.:              6.28e-56      Length:         366
Score:                  490.00        Matches:        95
Percent Similarity:     84.43%        Conservative:   8
Best Local Similarity:  77.87%        Mismatches:     11
Query Match:            80.33%        Indels:         8
DB:                     13            Gaps:           2

US-09-724-409-7 (1-114) x US-10-372-481-18 (1-366)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||:::|||||||||||||||||||||||||||||||||||||||||||
Db          1 GAGGTGCAGCTGCAGGAGTCTGGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 60

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              |||||||||||||||||||||||||    |||||||:::||||||:::||||||||
Db         61 TCCTGTAAGGCTTCTGGTTACTCATTCATTGGCTATTACATGCACTGGCTGAAGCAGAGC 120

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              |||||||||||||||||||||||||   ||||||       |||     :::|||
Db        121 CATGGAAAGAGCCTTGAGTGGATTGGAGCTGTTAATCCTAACACTGCTGGTCNTACCTAC 180

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||:::||||||    |||||||||||||||||||||||||||||||:::||||||||
Db        181 AACCAGAGGTTCAAGGACAAGGCCATATTAACTGTAGACAAGTCATCCAACACAGCCTAT 240

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||:::|||
```

```
Db        241 ATGGAGCTCCGCAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTTCAAGAGTGGAC 300

Qy        101 Ile------------TyrTrp------------TrpGlyHisGlyThrThrLeuThrVal 112
                              ||||||            ||||||   |||||||||:::||||||
Db        301 TATGATGACTACGGGTACTGGTTCTTCGATGTCTGGGGCGCAGGGACCACGGTCACCGTC 360

Qy        113 SerSer 114
                  ||||||
Db        361 TCCTCA 366
```

RESULT 10
US-10-371-797-18
; Sequence 18, Application US/10371797
; Publication No. US20040001828A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: TUSCANO, Joseph
; APPLICANT: TEDDER, Thomas
; TITLE OF INVENTION: TREATMENT METHODS USING ANTI-CD22
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCE: 39754-0951
; CURRENT APPLICATION NUMBER: US/10/371,797
; CURRENT FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US 60/420,472
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/359,419
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 366
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 173
; OTHER INFORMATION: n=I
US-10-371-797-18

Alignment Scores:

Pred. No.:	6.28e-56	Length:	366
Score:	490.00	Matches:	95
Percent Similarity:	84.43%	Conservative:	8
Best Local Similarity:	77.87%	Mismatches:	11
Query Match:	80.33%	Indels:	8
DB:	16	Gaps:	2

US-09-724-409-7 (1-114) x US-10-371-797-18 (1-366)

```
Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||:::||||||||||||||||||||||||||||||||||||||||
Db          1 GAGGTGCAGCTGCAGGAGTCTGGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 60

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||||||||    |||||||||:::||||||::|||||||||
Db         61 TCCTGTAAGGCTTCTGGTTACTCATTCATTGGCTATTACATGCACTGGCTGAAGCAGAGC 120

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||    |||   ||||||      |||   :::|||
Db        121 CATGGAAAGAGCCTTGAGTGGATTGGAGCTGTTAATCCTAACACTGCTGGTCNTACCTAC 180

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||:::||||||   ||||||||||||||||||||||||||||:::||||||||||
Db        181 AACCAGAGGTTCAAGGACAAGGCCATATTAACTGTAGACAAGTCATCCAACACAGCCTAT 240

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||:::|||
Db        241 ATGGAGCTCCGCAGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTTCAAGAGTGGAC 300

Qy        101 Ile------------TyrTrp------------TrpGlyHisGlyThrThrLeuThrVal 112
                              ||||||            ||||||   |||||||||:::||||||
Db        301 TATGATGACTACGGGTACTGGTTCTTCGATGTCTGGGGCGCAGGGACCACGGTCACCGTC 360
```

```
Qy        113 SerSer 114
                  ||||||
Db        361 TCCTCA 366
```

RESULT 11
US-10-195-752-3
; GENERAL INFORMATION:
; APPLICANT: NAKAMURA, KAZUYASU
; KOIKE, MASAMICHI
; SHITARA, KENYA
; HANAI, NOBUO
; KUWANA, YOSHIHISA
; HASEGAWA, MAMORU
; TITLE OF INVENTION: HUMANIZED ANTIBODIES
; NUMBER OF SEQUENCES: 113
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/195,752
; FILING DATE: 16-Jul-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/393,385B
; FILING DATE: 27-JUN-96
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)816-4000
; TELEFAX: (703)816-4100
; OTHER INFORMATION: /product= "HYPERVARIABLE REGION 3"
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-195-752-3

Alignment Scores:

Pred. No.:	1.5e-55	Length:	443
Score:	488.00	Matches:	94
Percent Similarity:	85.59%	Conservative:	7
Best Local Similarity:	79.66%	Mismatches:	13
Query Match:	80.00%	Indels:	4
DB:	15	Gaps:	1

US-09-724-409-7 (1-114) x US-10-195-752-3 (1-443)

```
Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||:::|||||||||||||||||||||||||||||
Db         90 GAGGTCCAGCTGCAGCAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 149

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||||:::||||||    |||   :::   ||||||||||||||
Db        150 TCCTGCAAGGCTTCTGGATACACATTCACTGACTACAACATGGACTGGGTGAAGCAGAGC 209

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||||    :::   ||||||||||||||||||    |||
Db        210 CATGGAAAGAGCCTTGAGTGGATTGGATATATTTATCCTAACAATGGTGGTACTGGCTAC 269

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||   ||||||   ||||||||||||||||||||||||||||||||||
Db        270 AACCAGAAGTTCAAGAGCAAGGCCACATTGACTGTAGACAAGTCCTCCAGCACAGCCTAC 329

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              |||||||||   ||||||||||||||||||||||||||||||||||||||||||   |||
Db        330 ATGGAGCTCCACAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGCGGGG 389

Qy        101 IleTyrTrp------------TrpGlyHisGlyThrThrLeuThrValSerSer 114
                 |||:::             ||||||   ||||||   :::||||||||||:::
```

```
Db        390 AGGTATTACTACGCCTGGGACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCA 443

RESULT 12
US-10-462-062-6
; Sequence 6, Application US/10462062
; Publication No. US20040044187A1
; GENERAL INFORMATION:
;  APPLICANT: SATO, KOH
;  APPLICANT:  ADACHI, HIDEKI
;  TITLE OF INVENTION: HUMANIZED ANTIBODIES AGAINST HUMAN TISSUE FACTOR (TF)
;  TITLE OF INVENTION:  AND PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODIES
;  FILE REFERENCE: 053466-0360
;  CURRENT APPLICATION NUMBER: US/10/462,062
;  CURRENT FILING DATE:  2003-06-16
;  PRIOR APPLICATION NUMBER: PCT/JP99/01768
;  PRIOR FILING DATE: 1999-04-02
;  PRIOR APPLICATION NUMBER: JP 10-91850
;  PRIOR FILING DATE: 1998-04-03
;  NUMBER OF SEQ ID NOS: 183
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 411
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Nucleotide sequence
;   OTHER INFORMATION: coding for H chain V region of anti-TF mouse monoclonal
;   OTHER INFORMATION: antibody ATR-2
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)..(411)
;   FEATURE:
;   NAME/KEY: sig_peptide
;   LOCATION: (1)..(57)
;   FEATURE:
;   NAME/KEY: mat_peptide
;   LOCATION: (58)..(411)
US-10-462-062-6

Alignment Scores:
Pred. No.:              1.84e-55      Length:          411
Score:                  487.00        Matches:         95
Percent Similarity:     87.29%        Conservative:    8
Best Local Similarity:  80.51%        Mismatches:      11
Query Match:            79.84%        Indels:          4
DB:                     13            Gaps:            2

US-09-724-409-7 (1-114) x US-10-462-062-6 (1-411)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              |||:::|||||||||||||||||||||:::|||||||||||||||||||||||||||:::
Db         58 GAGATCCAGCTGCAGCAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGGTA 117

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              |||||||||||||||||||||||||||||   |||   ::::::|||||||||||||||||
Db        118 TCCTGCAAGGCTTCTGGTTACTCATTCACTGACTACAACATGTACTGGGTGAAGCAGAGC 177

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              |||||||||||||||||||||||||   :::   |||   ||||||||||||   |||
Db        178 CATGGAAAGAGCCTTGAGTGGATTGGATATATTGATCCTTACAATGGTGGTACTATCTAC 237

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              |||||||||||||||||||||||   |||||||||||||||||||||||||||||:::
Db        238 AACCAGAAGTTCAAGGGCAAGGCCACATTGACTGTTGACAAGTCCTCCAGCACAGCCTTC 297

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArg------ 98
              |||   |||   ||||||||||||||||||||||||||||||||||||||||||
Db        298 ATGCATCTCAACAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGGAGGG 357

Qy         99 GluGlyIleTyr------TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
              ||||||   |||      :::||||||   ||||||||||||||||||||||
Db        358 GAAGGGTACTACTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 411

RESULT 13
US-10-462-062-7
; Sequence 7, Application US/10462062
; Publication No. US20040044187A1
; GENERAL INFORMATION:
;  APPLICANT: SATO, KOH
;  APPLICANT:  ADACHI, HIDEKI
;  TITLE OF INVENTION: HUMANIZED ANTIBODIES AGAINST HUMAN TISSUE FACTOR (TF)
;  TITLE OF INVENTION:  AND PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODIES
;  FILE REFERENCE: 053466-0360
;  CURRENT APPLICATION NUMBER: US/10/462,062
;  CURRENT FILING DATE:  2003-06-16
;  PRIOR APPLICATION NUMBER: PCT/JP99/01768
;  PRIOR FILING DATE: 1999-04-02
;  PRIOR APPLICATION NUMBER: JP 10-91850
;  PRIOR FILING DATE: 1998-04-03
;  NUMBER OF SEQ ID NOS: 183
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
;   LENGTH: 411
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Nucleotide sequence
;   OTHER INFORMATION: coding for H chain V region of anti-TF mouse monoclonal
;   OTHER INFORMATION: antibody ATR-3
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)..(411)
;   FEATURE:
;   NAME/KEY: sig_peptide
;   LOCATION: (1)..(57)
;   FEATURE:
;   NAME/KEY: mat_peptide
;   LOCATION: (58)..(411)
US-10-462-062-7

Alignment Scores:
Pred. No.:              1.84e-55      Length:          411
Score:                  487.00        Matches:         95
Percent Similarity:     87.29%        Conservative:    8
Best Local Similarity:  80.51%        Mismatches:      11
Query Match:            79.84%        Indels:          4
DB:                     13            Gaps:            2

US-09-724-409-7 (1-114) x US-10-462-062-7 (1-411)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              |||:::|||||||||||||||||||||:::|||||||||||||||||||||||||||:::
Db         58 GAGATCCAGCTGCAGCAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGGTA 117

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              |||||||||||||||||||||||||||||   |||   ::::::|||||||||||||||||
Db        118 TCCTGCAAGGCTTCTGGTTACTCATTCACTGACTACAACATGTACTGGGTGAAGCAGAGC 177

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              |||||||||||||||||||||||||   :::   |||   ||||||||||||   |||
Db        178 CATGGAAAGAGCCTTGAGTGGATTGGATATATTGATCCTTACAATGGTGGTACTATCTAC 237

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              |||||||||||||||||||||||   |||||||||||||||||||||||||||||:::
Db        238 AACCAGAAGTTCAAGGGCAAGGCCACATTGACTGTTGACAAGTCCTCCAGCACAGCCTTC 297

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArg------ 98
              |||   |||   ||||||||||||||||||||||||||||||||||||||||||
Db        298 ATGCATCTCAACAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGGAGGG 357

Qy         99 GluGlyIleTyr------TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
              ||||||   |||      :::||||||   ||||||||||||||||||||||
Db        358 GAAGGGTACTACTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 411

RESULT 14
US-09-929-665-6
```

```
; Sequence 6, Application US/09929665
; Publication No. US20030003101A1
; GENERAL INFORMATION:
;  APPLICANT: Bander, Neil H.
;  TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF PROSTATE CANCER
;  FILE REFERENCE: Lois M. Kwasigroch: BZL 242/024
;  CURRENT APPLICATION NUMBER: US/09/929,665
;  CURRENT FILING DATE:  2001-08-13
;  PRIOR APPLICATION NUMBER: 09/357,704
;  PRIOR FILING DATE: 1999-07-20
;  PRIOR APPLICATION NUMBER: US 08/838,682
;  PRIOR FILING DATE: 1997-04-09
;  PRIOR APPLICATION NUMBER: US 60/016,976
;  PRIOR FILING DATE: 1996-05-06
;  PRIOR APPLICATION NUMBER: US 60/022,125
;  PRIOR FILING DATE: 1996-07-18
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
;   LENGTH: 345
;   TYPE: DNA
;   ORGANISM: Mus sp.
US-09-929-665-6

Alignment Scores:
Pred. No.:              4.27e-55      Length:          345
Score:                  483.50        Matches:         93
Percent Similarity:     87.83%        Conservative:    8
Best Local Similarity:  80.87%        Mismatches:      13
Query Match:            79.26%        Indels:          1
DB:                     10            Gaps:            1

US-09-724-409-7 (1-114) x US-09-929-665-6 (1-345)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              |||||||||||||||||||||||||||||:::|||||||||||||||   ||||||:::|||
Db          1 GAGGTCCAGCTGCAACAGTCTGGACCTGAACTGGTGAAGCCTGGGACTTCAGTGAGGATA 60

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||   |||||||||:::||||||   |||   ||||||||||||||||||||
Db         61 TCCTGCAAGACTTCTGGATACACATTCACTGAATATACCATACACTGGGTGAAGCAGAGC 120

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||   :::   |||||||||||||||||:::|||
Db        121 CATGGAAAGAGCCTTGAGTGGATTGGAAACATCAATCCTAACAATGGTGGTACCACCTAC 180

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||:::   ||||||   ||||||||||||||||||||||||||||||
Db        181 AATCAGAAGTTCGAGGACAAGGCCACATTGACTGTAGACAAGTCCTCCAGTACAGCCTAC 240

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 ATGGAGCTCCGCAGCCTAACATCTGAGGATTCTGCAGTCTATTATTGTGCAGCTGGTTGG 300

Qy        101 IleTyr---TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
                :::   :::||||||   |||||||||||||||||||||||
Db        301 AACTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 345

RESULT 15
US-09-929-665-7/c
; Sequence 7, Application US/09929665
; Publication No. US20030003101A1
; GENERAL INFORMATION:
;  APPLICANT: Bander, Neil H.
;  TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF PROSTATE CANCER
;  FILE REFERENCE: Lois M. Kwasigroch: BZL 242/024
;  CURRENT APPLICATION NUMBER: US/09/929,665
;  CURRENT FILING DATE:  2001-08-13
;  PRIOR APPLICATION NUMBER: 09/357,704
;  PRIOR FILING DATE: 1999-07-20
;  PRIOR APPLICATION NUMBER: US 08/838,682
;  PRIOR FILING DATE: 1997-04-09
;  PRIOR APPLICATION NUMBER: US 60/016,976
;  PRIOR FILING DATE: 1996-05-06
;  PRIOR APPLICATION NUMBER: US 60/022,125
;  PRIOR FILING DATE: 1996-07-18
;  NUMBER OF SEQ ID NOS: 21
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
;   LENGTH: 345
;   TYPE: DNA
;   ORGANISM: Mus sp.
US-09-929-665-7

Alignment Scores:
Pred. No.:              4.27e-55      Length:          345
Score:                  483.50        Matches:         93
Percent Similarity:     87.83%        Conservative:    8
Best Local Similarity:  80.87%        Mismatches:      13
Query Match:            79.26%        Indels:          1
DB:                     10            Gaps:            1

US-09-724-409-7 (1-114) x US-09-929-665-7 (1-345)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              |||||||||||||||||||||||||||||:::|||||||||||||||   ||||||:::|||
Db        345 GAGGTCCAGCTGCAACAGTCTGGACCTGAACTGGTGAAGCCTGGGACTTCAGTGAGGATA 286

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||   |||||||||:::||||||   |||   ||||||||||||||||||||
Db        285 TCCTGCAAGACTTCTGGATACACATTCACTGAATATACCATACACTGGGTGAAGCAGAGC 226

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||   :::   |||||||||||||||||:::|||
Db        225 CATGGAAAGAGCCTTGAGTGGATTGGAAACATCAATCCTAACAATGGTGGTACCACCTAC 166

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||:::   ||||||   ||||||||||||||||||||||||||||||
Db        165 AATCAGAAGTTCGAGGACAAGGCCACATTGACTGTAGACAAGTCCTCCAGTACAGCCTAC 106

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        105 ATGGAGCTCCGCAGCCTAACATCTGAGGATTCTGCAGTCTATTATTGTGCAGCTGGTTGG 46

Qy        101 IleTyr---TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
                :::   :::||||||   |||||||||||||||||||||||
Db         45 AACTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 1


Search completed: May 13, 2004, 09:44:34
Job time : 346.522 secs
```

GenCore version 5.1.6

OM protein - nucleic search, using frame_plus_p2n model

Run on: May 13, 2004, 02:58:22 ; Search time 59.5221 Seconds
(without alignments)
1062.872 Million cell updates/sec

Title: US-09-724-409-7
Perfect score: 610
Sequence: 1 EVQLQQSGPDLVKPGASVKI.....YCAREGIYWWGHGTTLTVSS 114

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+_p2n.model -DEV=xlh
-Q=/cgn2_1/USPTO_spool/US09724409/runat_12052004_081343_2704/app_query.fasta_1.526
-DB=Issued_Patents_NA -QFMT=fastap -SUFFIX=p2n.rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09724409_@CGN_1_1_93_@runat_12052004_081343_2704 -NCPU=6 -ICPU=3
-NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	496	81.3	405	1	US-08-137-117D-26	Sequence 26, Appl
2	496	81.3	405	1	US-08-436-717-26	Sequence 26, Appl
3	488	80.0	443	2	US-08-116-778E-40	Sequence 40, Appl
4	488	80.0	443	2	US-08-438-562-40	Sequence 40, Appl
5	488	80.0	443	2	US-08-483-528B-3	Sequence 3, Appli
6	488	80.0	443	3	US-08-673-799C-3	Sequence 3, Appli
7	488	80.0	443	4	US-09-393-385B-3	Sequence 3, Appli
8	487.5	79.9	906	2	US-08-656-906-24	Sequence 24, Appl
9	487.5	79.9	906	3	US-09-217-847-24	Sequence 24, Appl
10	487	79.8	411	4	US-09-647-468-6	Sequence 6, Appli
11	487	79.8	411	4	US-09-647-468-7	Sequence 7, Appli
12	483.5	79.3	345	3	US-08-838-682-6	Sequence 6, Appli
c 13	483.5	79.3	345	3	US-08-838-682-7	Sequence 7, Appli
14	483.5	79.3	345	3	US-08-895-914-6	Sequence 6, Appli
c 15	483.5	79.3	345	3	US-08-895-914-7	Sequence 7, Appli
16	483.5	79.3	345	3	US-09-357-710A-6	Sequence 6, Appli
c 17	483.5	79.3	345	3	US-09-357-710A-7	Sequence 7, Appli
18	483.5	79.3	345	4	US-09-357-707-6	Sequence 6, Appli
c 19	483.5	79.3	345	4	US-09-357-707-7	Sequence 7, Appli
20	483.5	79.3	391	3	US-08-838-682-1	Sequence 1, Appli
c 21	483.5	79.3	391	3	US-08-838-682-2	Sequence 2, Appli
22	483.5	79.3	391	3	US-08-895-914-1	Sequence 1, Appli
c 23	483.5	79.3	391	3	US-08-895-914-2	Sequence 2, Appli
24	483.5	79.3	391	3	US-09-357-710A-1	Sequence 1, Appli
c 25	483.5	79.3	391	3	US-09-357-710A-2	Sequence 2, Appli
26	483.5	79.3	391	4	US-09-357-707-1	Sequence 1, Appli
c 27	483.5	79.3	391	4	US-09-357-707-2	Sequence 2, Appli
28	482.5	79.1	729	1	US-08-230-843-3	Sequence 3, Appli
29	482.5	79.1	729	2	US-08-636-936-3	Sequence 3, Appli
30	480	78.7	449	2	US-08-116-778E-38	Sequence 38, Appl
31	480	78.7	449	2	US-08-438-562-38	Sequence 38, Appl
32	480	78.7	449	2	US-08-483-528B-1	Sequence 1, Appli
33	480	78.7	449	3	US-08-673-799C-1	Sequence 1, Appli
34	480	78.7	449	4	US-09-393-385B-1	Sequence 1, Appli
35	479	78.5	10785	3	US-08-444-644-27	Sequence 27, Appl
36	479	78.5	10785	4	US-08-232-246A-27	Sequence 27, Appl
37	479	78.5	10844	3	US-08-444-644-41	Sequence 41, Appl
38	479	78.5	10844	4	US-08-232-246A-41	Sequence 41, Appl
39	479	78.5	11528	3	US-08-444-644-18	Sequence 18, Appl
40	479	78.5	11528	4	US-08-232-246A-18	Sequence 18, Appl
41	479	78.5	12127	3	US-08-444-644-32	Sequence 32, Appl
42	479	78.5	12127	4	US-08-232-246A-32	Sequence 32, Appl
43	478	78.4	354	1	US-08-491-845-5	Sequence 5, Appli
44	477	78.2	405	1	US-07-634-278-68	Sequence 68, Appl
45	477	78.2	405	1	US-08-477-728-68	Sequence 68, Appl

ALIGNMENTS

```
RESULT 1
US-08-137-117D-26
; Sequence 26, Application US/08137117D
; Patent No. 5795965
;  GENERAL INFORMATION:
;    APPLICANT:  TSUCHIYA, Masayuki
;    APPLICANT:  SATO, Koh
;    APPLICANT:  BENDIG, Mary
;    APPLICANT:  JONES, Steven
;    APPLICANT:  SALDANHA, Jose
;    TITLE OF INVENTION:  RESHAPED HUMAN ANTIBODY TO HUMAN
;    TITLE OF INVENTION:  INTERLEUKIN-6 RECEPTOR
;    NUMBER OF SEQUENCES:  158
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley & Lardner
;      STREET:  3000 K Street, N.W., Suite 500
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20007-5109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/137,117D
;      FILING DATE:  20-DEC-1993
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  WO PCT/JP92/00544
;      FILING DATE:  24-APR-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 4-32084
;      FILING DATE:  19-FEB-1992
;    PRIOR APPLICATION DATA:
```

```
;      APPLICATION NUMBER:  JP 3-95476
;      FILING DATE:  25-APR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  WEGNER, Harold C.
;      REGISTRATION NUMBER:  25,258
;      REFERENCE/DOCKET NUMBER:  53466/126/AAOK
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202)672-5300
;      TELEFAX:  (202)672-5399
;      TELEX:  904136
;  INFORMATION FOR SEQ ID NO:  26:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  405 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..405
;    FEATURE:
;      NAME/KEY:  mat_peptide
;      LOCATION:  1..405
US-08-137-117D-26

Alignment Scores:
Pred. No.:                6.16e-53      Length:          405
Score:                    496.00        Matches:         95
Percent Similarity:       87.93%        Conservative:    7
Best Local Similarity:    81.90%        Mismatches:      12
Query Match:              81.31%        Indels:          2
DB:                       1             Gaps:            1

US-09-724-409-7 (1-114) x US-08-137-117D-26 (1-405)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              |||:::|||||||||||||||||||||||:::|||:::|||||||||||||||||||||
Db         58 GAGATCCAGCTGCAGCAGTCTGGACCTGAGCTGATGAAGCCTGGGGCTTCAGTGAAGATA 117

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              |||||||||||||||||||||||||||||||   |||||||||||||||||||||||||
Db        118 TCCTGCAAGGCTTCTGGTTACTCATTCACTAGCTATTACATACACTGGGTGAAGCAGAGC 177

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              |||||||||||||||||||||||||   :::   |||   |||||||||||||||||||
Db        178 CATGGAAAGAGCCTTGAGTGGATTGGATATATTGATCCTTTCAATGGTGGTACTAGCTAC 237

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              |||||||||||||||||||||||   |||||||||||||||||||||||||||||||||
Db        238 AACCAGAAATTCAAGGGCAAGGCCACATTGACTGTTGACAAATCTTCCAGCACAGCCTAC 297

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              |||   |||   |||||||||||||||||||||||||||||||||||||||||   |||
Db        298 ATGCATCTCAGCAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGGGGGGGT 357

Qy        101 ------IleTyrTrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
                   :::|||||   ||||||   :::|||||||||:::
Db        358 AACCGCTTTGCTTACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCA 405

RESULT 2
US-08-436-717-26
; Sequence 26, Application US/08436717
; Patent No. 5817790
;  GENERAL INFORMATION:
;    APPLICANT:  TSUCHIYA, Masayuki
;    APPLICANT:  SATO, Koh
;    APPLICANT:  BENDIG, Mary
;    APPLICANT:  JONES, Steven
;    APPLICANT:  SALDANHA, Jose
;    TITLE OF INVENTION:  RESHAPED HUMAN ANTIBODY TO HUMAN
;    TITLE OF INVENTION:  INTERLEUKIN-6 RECEPTOR
;    NUMBER OF SEQUENCES:  158
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley & Lardner
;      STREET:  3000 K Street, N.W., Suite 500
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20007-5109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/436,717
;      FILING DATE:
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/137,117
;      FILING DATE:  20-DEC-1993
;      APPLICATION NUMBER:  WO PCT/JP92/00544
;      FILING DATE:  24-APR-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 4-32084
;      FILING DATE:  19-FEB-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 3-95476
;      FILING DATE:  25-APR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  WEGNER, Harold C.
;      REGISTRATION NUMBER:  25,258
;      REFERENCE/DOCKET NUMBER:  53466/126/AAOK
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202)672-5300
;      TELEFAX:  (202)672-5399
;      TELEX:  904136
;  INFORMATION FOR SEQ ID NO:  26:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  405 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..405
;    FEATURE:
;      NAME/KEY:  mat_peptide
;      LOCATION:  1..405
US-08-436-717-26

Alignment Scores:
Pred. No.:                6.16e-53      Length:          405
Score:                    496.00        Matches:         95
Percent Similarity:       87.93%        Conservative:    7
Best Local Similarity:    81.90%        Mismatches:      12
Query Match:              81.31%        Indels:          2
DB:                       1             Gaps:            1

US-09-724-409-7 (1-114) x US-08-436-717-26 (1-405)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              |||:::|||||||||||||||||||||||:::|||:::|||||||||||||||||||||
Db         58 GAGATCCAGCTGCAGCAGTCTGGACCTGAGCTGATGAAGCCTGGGGCTTCAGTGAAGATA 117

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              |||||||||||||||||||||||||||||||   |||||||||||||||||||||||||
Db        118 TCCTGCAAGGCTTCTGGTTACTCATTCACTAGCTATTACATACACTGGGTGAAGCAGAGC 177

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              |||||||||||||||||||||||||   :::   |||   |||||||||||||||||||
Db        178 CATGGAAAGAGCCTTGAGTGGATTGGATATATTGATCCTTTCAATGGTGGTACTAGCTAC 237

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              |||||||||||||||||||||||   |||||||||||||||||||||||||||||||||
Db        238 AACCAGAAATTCAAGGGCAAGGCCACATTGACTGTTGACAAATCTTCCAGCACAGCCTAC 297
```

```
Qy          81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
               |||   |||  ||||||||||||||||||||||||||||||||||||||||||||   |||
Db         298 ATGCATCTCAGCAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGGGGGGGT 357

Qy         101 ------IleTyrTrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
                   :::||||||   ||||||   :::|||||||||:::
Db         358 AACCGCTTTGCTTACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCA 405

RESULT 3
US-08-116-778E-40
; Sequence 40, Application US/08116778E
; Patent No. 5830470
;  GENERAL INFORMATION:
;    APPLICANT:  NAKAMURA, KAZUYASU
;    APPLICANT:  KOIKE, MASAMICHI
;    APPLICANT:  SHITARA, KENYA
;    APPLICANT:  HANAI, NOBUO
;    APPLICANT:  KUWANA, YOSHIHISA
;    APPLICANT:  HASEGAWA, MAMORU
;    TITLE OF INVENTION:  HUMANIZED ANTIBODIES
;    NUMBER OF SEQUENCES:  49
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  NIXON & VANDERHYE P.C.
;      STREET:  1100 NORTH GLEBE ROAD
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  U.S.A.
;      ZIP:  22201-4714
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/116,778E
;      FILING DATE:  07-SEP-93
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  WILSON, MARY J.
;      REGISTRATION NUMBER:  32,955
;      REFERENCE/DOCKET NUMBER:  249-59
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)816-4000
;      TELEFAX:  (703)816-4100
;  INFORMATION FOR SEQ ID NO:  40:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  443 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  other nucleic acid
US-08-116-778E-40

Alignment Scores:
Pred. No.:                6.84e-52        Length:          443
Score:                    488.00          Matches:         94
Percent Similarity:       85.59%          Conservative:    7
Best Local Similarity:    79.66%          Mismatches:      13
Query Match:              80.00%          Indels:          4
DB:                       2               Gaps:            1

US-09-724-409-7 (1-114) x US-08-116-778E-40 (1-443)

Qy           1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
               ||||||||||||||||||||||||||:::||||||||||||||||||||||||||||||
Db          90 GAGGTCCAGCTGCAGCAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 149

Qy          21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
               ||||||||||||||||||||||:::||||||   |||   :::   ||||||||||||||
Db         150 TCCTGCAAGGCTTCTGGATACACATTCACTGACTACAACATGGACTGGGTGAAGCAGAGC 209

Qy          41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
               ||||||||||||||||||||||||||   :::   ||||||||||||||||||   |||

Db         210 CATGGAAAGAGCCTTGAGTGGATTGGATATATTTATCCTAACAATGGTGGTACTGGCTAC 269

Qy          61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
               ||||||||||||||   ||||||   ||||||||||||||||||||||||||||||||||
Db         270 AACCAGAAGTTCAAGAGCAAGGCCACATTGACTGTAGACAAGTCCTCCAGCACAGCCTAC 329

Qy          81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
               |||||||||   ||||||||||||||||||||||||||||||||||||||||||   |||
Db         330 ATGGAGCTCCACAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGCGGGG 389

Qy         101 IleTyrTrp------------TrpGlyHisGlyThrThrLeuThrValSerSer 114
                  |||:::            ||||||   ||||||   :::||||||||:::
Db         390 AGGTATTACTACGCCTGGGACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCA 443

RESULT 4
US-08-438-562-40
; Sequence 40, Application US/08438562
; Patent No. 5874255
;  GENERAL INFORMATION:
;    APPLICANT:  NAKAMURA, KAZUYASU
;    APPLICANT:  KOIKE, MASAMICHI
;    APPLICANT:  SHITARA, KENYA
;    APPLICANT:  HANAI, NOBUO
;    APPLICANT:  KUWANA, YOSHIHISA
;    APPLICANT:  HASEGAWA, MAMORU
;    TITLE OF INVENTION:  HUMANIZED ANTIBODIES
;    NUMBER OF SEQUENCES:  49
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  NIXON & VANDERHYE P.C.
;      STREET:  1100 NORTH GLEBE ROAD
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  U.S.A.
;      ZIP:  22201-4714
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/438,562
;      FILING DATE:  10-MAY-95
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/116,778
;      FILING DATE:  07-SEP-93
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  WILSON, MARY J.
;      REGISTRATION NUMBER:  32,955
;      REFERENCE/DOCKET NUMBER:  249-76
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)816-4000
;      TELEFAX:  (703)816-4100
;  INFORMATION FOR SEQ ID NO:  40:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  443 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  other nucleic acid
US-08-438-562-40

Alignment Scores:
Pred. No.:                6.84e-52        Length:          443
Score:                    488.00          Matches:         94
Percent Similarity:       85.59%          Conservative:    7
Best Local Similarity:    79.66%          Mismatches:      13
Query Match:              80.00%          Indels:          4
DB:                       2               Gaps:            1

US-09-724-409-7 (1-114) x US-08-438-562-40 (1-443)
```

```
Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||:::||||||||||||||||||||||||||||||
Db         90 GAGGTCCAGCTGCAGCAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 149

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||:::||||||   |||   :::   ||||||||||||||||
Db        150 TCCTGCAAGGCTTCTGGATACACATTCACTGACTACAACATGGACTGGGTGAAGCAGAGC 209

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||   :::   ||||||||||||||||||   |||
Db        210 CATGGAAAGAGCCTTGAGTGGATTGGATATATTTATCCTAACAATGGTGGTACTGGCTAC 269

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||   ||||||   ||||||||||||||||||||||||||||||||||
Db        270 AACCAGAAGTTCAAGAGCAAGGCCACATTGACTGTAGACAAGTCCTCCAGCACAGCCTAC 329

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              |||||||||   ||||||||||||||||||||||||||||||||||||||||||   |||
Db        330 ATGGAGCTCCACAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGCGGGG 389

Qy        101 IleTyrTrp-----------TrpGlyHisGlyThrThrLeuThrValSerSer 114
              |||:::           ||||||   ||||||   :::||||||||||:::
Db        390 AGGTATTACTACGCCTGGGACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCA 443

RESULT 5
US-08-483-528B-3
; Sequence 3, Application US/08483528B
; Patent No. 5939532
;  GENERAL INFORMATION:
;    APPLICANT:  NAKAMURA, KAZUYASU
;    APPLICANT:  KOIKE, MASAMICHI
;    APPLICANT:  SHITARA, KENYA
;    APPLICANT:  HANAI, NOBUO
;    APPLICANT:  KUWANA, YOSHIHISA
;    APPLICANT:  HASEGAWA, MAMORU
;    TITLE OF INVENTION:  HUMANIZED ANTIBODIES
;    NUMBER OF SEQUENCES:  103
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  NIXON & VANDERHYE P.C.
;      STREET:  1100 NORTH GLEBE ROAD
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  U.S.A.
;      ZIP:  22201-4714
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/483,528B
;      FILING DATE:  07-JUN-95
;      CLASSIFICATION:  536
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)816-4000
;      TELEFAX:  (703)816-4100
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  443 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  sig_peptide
;      LOCATION:  -19..-1
;      IDENTIFICATION METHOD:
;      IDENTIFICATION METHOD:  BY SIMILARITY WITH KNOWN SEQUENCE OR TO AN
;      IDENTIFICATION METHOD:  ESTABLISHED CONSENSUS
;    FEATURE:
;      NAME/KEY:  domain
;      LOCATION:  31..35
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;      IDENTIFICATION METHOD:  CONSENSUS
;      OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 1"
;    FEATURE:
;      NAME/KEY:  domain
;      LOCATION:  55..66
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;      IDENTIFICATION METHOD:  CONSENSUS
;      OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 2"
;    FEATURE:
;      NAME/KEY:  domain
;      LOCATION:  99..107
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISEHD
;      IDENTIFICATION METHOD:  CONSENSUS
;      OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 3"
US-08-483-528B-3

Alignment Scores:
Pred. No.:                6.84e-52        Length:          443
Score:                    488.00          Matches:         94
Percent Similarity:       85.59%          Conservative:    7
Best Local Similarity:    79.66%          Mismatches:      13
Query Match:              80.00%          Indels:          4
DB:                       2               Gaps:            1

US-09-724-409-7 (1-114) x US-08-483-528B-3 (1-443)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||:::||||||||||||||||||||||||||||||
Db         90 GAGGTCCAGCTGCAGCAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 149

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||:::||||||   |||   :::   ||||||||||||||||
Db        150 TCCTGCAAGGCTTCTGGATACACATTCACTGACTACAACATGGACTGGGTGAAGCAGAGC 209

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||   :::   ||||||||||||||||||   |||
Db        210 CATGGAAAGAGCCTTGAGTGGATTGGATATATTTATCCTAACAATGGTGGTACTGGCTAC 269

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||   ||||||   ||||||||||||||||||||||||||||||||||
Db        270 AACCAGAAGTTCAAGAGCAAGGCCACATTGACTGTAGACAAGTCCTCCAGCACAGCCTAC 329

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              |||||||||   ||||||||||||||||||||||||||||||||||||||||||   |||
Db        330 ATGGAGCTCCACAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGCGGGG 389

Qy        101 IleTyrTrp-----------TrpGlyHisGlyThrThrLeuThrValSerSer 114
              |||:::           ||||||   ||||||   :::||||||||||:::
Db        390 AGGTATTACTACGCCTGGGACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCA 443

RESULT 6
US-08-673-799C-3
; Sequence 3, Application US/08673799C
; Patent No. 6042828
;  GENERAL INFORMATION:
;    APPLICANT:  NAKAMURA, KAZUYASU
;    APPLICANT:  KOIKE, MASAMICHI
;    APPLICANT:  SHITARA, KENYA
;    APPLICANT:  HANAI, NOBUO
;    APPLICANT:  KUWANA, YOSHIHISA
;    APPLICANT:  HASEGAWA, MAMORU
;    TITLE OF INVENTION:  HUMANIZED ANTIBODIES
;    NUMBER OF SEQUENCES:  104
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  NIXON & VANDERHYE P.C.
;      STREET:  1100 NORTH GLEBE ROAD
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  U.S.A.
;      ZIP:  22201-4714
```

```
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/673,799C
;      FILING DATE:  27-JUN-96
;      CLASSIFICATION:  536
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)816-4000
;      TELEFAX:  (703)816-4100
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  443 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  Other nucleic acid
;    FEATURE:
;      NAME/KEY:  sig_peptide
;      LOCATION:  -19..-1
;      IDENTIFICATION METHOD:  BY SIMILARITY WITH KNOWN SEQUENCE OR TO AN
;      IDENTIFICATION METHOD:  ESTABLISHED CONSENSUS
;    FEATURE:
;      NAME/KEY:  domain
;      LOCATION:  31..35
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;      IDENTIFICATION METHOD:  CONSENSUS
;      OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 1"
;    FEATURE:
;      NAME/KEY:  domain
;      LOCATION:  55..66
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;      IDENTIFICATION METHOD:  CONSENSUS
;      OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 2"
;    FEATURE:
;      NAME/KEY:  domain
;      LOCATION:  99..107
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISEHD
;      IDENTIFICATION METHOD:  CONSENSUS
;      OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 3"
US-08-673-799C-3

Alignment Scores:
Pred. No.:                6.84e-52        Length:          443
Score:                    488.00          Matches:         94
Percent Similarity:       85.59%          Conservative:    7
Best Local Similarity:    79.66%          Mismatches:      13
Query Match:              80.00%          Indels:          4
DB:                       3               Gaps:            1

US-09-724-409-7 (1-114) x US-08-673-799C-3 (1-443)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||:::||||||||||||||||||||||||||||||
Db         90 GAGGTCCAGCTGCAGCAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 149

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||:::||||||   |||   :::   ||||||||||||||||
Db        150 TCCTGCAAGGCTTCTGGATACACATTCACTGACTACAACATGGACTGGGTGAAGCAGAGC 209

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||   :::   ||||||||||||||||||   |||
Db        210 CATGGAAAGAGCCTTGAGTGGATTGGATATATTTATCCTAACAATGGTGGTACTGGCTAC 269

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||   ||||||   ||||||||||||||||||||||||||||||||||
Db        270 AACCAGAAGTTCAAGAGCAAGGCCACATTGACTGTAGACAAGTCCTCCAGCACAGCCTAC 329

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              |||||||||   ||||||||||||||||||||||||||||||||||||||||||   |||
Db        330 ATGGAGCTCCACAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGCGGGG 389

Qy        101 IleTyrTrp------------TrpGlyHisGlyThrThrLeuThrValSerSer 114
              |||:::                ||||||   ||||||    :::|||||||||:::
Db        390 AGGTATTACTACGCCTGGGACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCA 443

RESULT 7
US-09-393-385B-3
; Sequence 3, Application US/09393385B
; Patent No. 6423511
;  GENERAL INFORMATION:
;    APPLICANT:  NAKAMURA, KAZUYASU
;    APPLICANT:  KOIKE, MASAMICHI
;    APPLICANT:  SHITARA, KENYA
;    APPLICANT:  HANAI, NOBUO
;    APPLICANT:  KUWANA, YOSHIHISA
;    APPLICANT:  HASEGAWA, MAMORU
;    TITLE OF INVENTION:  HUMANIZED ANTIBODIES
;    NUMBER OF SEQUENCES:  113
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  NIXON & VANDERHYE P.C.
;      STREET:  1100 NORTH GLEBE ROAD
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  U.S.A.
;      ZIP:  22201-4714
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/393,385B
;      FILING DATE:  27-JUN-96
;      CLASSIFICATION:
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)816-4000
;      TELEFAX:  (703)816-4100
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  443 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  Other nucleic acid
;    FEATURE:
;      NAME/KEY:  sig_peptide
;      LOCATION:  34..89
;      IDENTIFICATION METHOD:  BY SIMILARITY WITH KNOWN SEQUENCE OR TO AN
;      IDENTIFICATION METHOD:  ESTABLISHED CONSENSUS
;    FEATURE:
;      NAME/KEY:  domain
;      LOCATION:  180..194
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;      IDENTIFICATION METHOD:  CONSENSUS
;      OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 1"
;    FEATURE:
;      NAME/KEY:  domain
;      LOCATION:  252..287
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;      IDENTIFICATION METHOD:  CONSENSUS
;      OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 2"
;    FEATURE:
;      NAME/KEY:  domain
;      LOCATION:  384..410
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISEHD
;      IDENTIFICATION METHOD:  CONSENSUS
;      OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 3"
```

US-09-393-385B-3

Alignment Scores:

Pred. No.:	6.84e-52	Length:	443
Score:	488.00	Matches:	94
Percent Similarity:	85.59%	Conservative:	7
Best Local Similarity:	79.66%	Mismatches:	13
Query Match:	80.00%	Indels:	4
DB:	4	Gaps:	1

US-09-724-409-7 (1-114) x US-09-393-385B-3 (1-443)

```
Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||:::|||||||||||||||||||||||||||||||
Db         90 GAGGTCCAGCTGCAGCAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 149

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              ||||||||||||||||||||:::||||||   |||   :::   ||||||||||||||||
Db        150 TCCTGCAAGGCTTCTGGATACACATTCACTGACTACAACATGGACTGGGTGAAGCAGAGC 209

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||   :::   ||||||||||||||||||   |||
Db        210 CATGGAAAGAGCCTTGAGTGGATTGGATATATTTATCCTAACAATGGTGGTACTGGCTAC 269

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              |||||||||||||||   ||||||   ||||||||||||||||||||||||||||||||
Db        270 AACCAGAAGTTCAAGAGCAAGGCCACATTGACTGTAGACAAGTCCTCCAGCACAGCCTAC 329

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              |||||||||   ||||||||||||||||||||||||||||||||||||||||   |||
Db        330 ATGGAGCTCCACAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGCGGGG 389

Qy        101 IleTyrTrp------------TrpGlyHisGlyThrThrLeuThrValSerSer 114
                 |||:::            ||||||   ||||||   :::||||||||:::
Db        390 AGGTATTACTACGCCTGGGACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCA 443
```

RESULT 8
US-08-656-906-24
; Sequence 24, Application US/08656906
; Patent No. 5972901
; GENERAL INFORMATION:
; APPLICANT: Ferkol Jr., Thomas W.
; APPLICANT: Davis, Pamela B.
; APPLICANT: Ziady, Assem-Galal
; TITLE OF INVENTION: Serpin Enzyme Complex Receptor -
; TITLE OF INVENTION: Mediated Gene Transfer
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Medlen & Carroll
; STREET: 220 Montgomery Street, Suite 2200
; CITY: San Francisco
; STATE: California
; COUNTRY: United States Of America
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/656,906
; FILING DATE: 03-JUN-1996
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/
; FILING DATE: 03-JUN-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO WO 95/25809
; FILING DATE: 23-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/216,534
; FILING DATE: 23-MAR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Ingolia, Diane E.
; REGISTRATION NUMBER: 40,027
; REFERENCE/DOCKET NUMBER: CASE-02280
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 705-8410
; TELEFAX: (415) 397-8338
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 906 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..906
US-08-656-906-24

Alignment Scores:

Pred. No.:	2.05e-51	Length:	906
Score:	487.50	Matches:	96
Percent Similarity:	83.47%	Conservative:	5
Best Local Similarity:	79.34%	Mismatches:	13
Query Match:	79.92%	Indels:	7
DB:	2	Gaps:	1

US-09-724-409-7 (1-114) x US-08-656-906-24 (1-906)

```
Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        379 GAGGTTCAGCTTCAGCAGTCTGGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 438

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              |||||||||   |||||||||:::|||      |||   :::||||||||||||||||||
Db        439 TCCTGCAAGACTTCTGGATACACATTCATTGAATATACCATGCACTGGGTGAAGCAGAGC 498

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||   :::   ||||||||||||||||||||||||||
Db        499 CATGGAAAGAGCCTTGAGTGGATTGGAGGTATTAATCCTAACAATGGTGGTACTAGTTAC 558

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              |||||||||||||||||||||   |||||||||||||||||||||:::|||||||||
Db        559 AACCAGAAGTTCAAGGGCAAGGCCACATTGACTGTAGACAAGTCCTCCACCACAGCCTAC 618

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||   ||||||||||||||||||||||||||   ||||||||
Db        619 ATGGAGCTCCGCGGCCTGACATCTGAGGATTCTGCAGTCTATTCCTGTGCAAGATACTAT 678

Qy        101 IleTyr--------------------TrpTrpGlyHisGlyThrThrLeuThrValSer 113
                 |||                   :::||||||   ||||||||||||||||||||
Db        679 AGGTACGACGTTCTCTCTGCTATGGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCC 738

Qy        114 Ser 114
                 |||
Db        739 TCA 741
```

RESULT 9
US-09-217-847-24
; Sequence 24, Application US/09217847
; Patent No. 6200801
; GENERAL INFORMATION:
; APPLICANT: Ferkol Jr., Thomas W.
; APPLICANT: Davis, Pamela B.
; APPLICANT: Ziady, Assem-Galal
; TITLE OF INVENTION: Serpin Enzyme Complex Receptor -
; TITLE OF INVENTION: Mediated Gene Transfer
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Medlen & Carroll
; STREET: 220 Montgomery Street, Suite 2200
; CITY: San Francisco
; STATE: California
; COUNTRY: United States Of America

```
;       ZIP:  94104
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.30
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/217,847
;       FILING DATE:
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/656,906
;       FILING DATE:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  WO WO 95/25809
;       FILING DATE:  23-MAR-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/216,534
;       FILING DATE:  23-MAR-1994
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Ingolia, Diane E.
;       REGISTRATION NUMBER:  40,027
;       REFERENCE/DOCKET NUMBER:  CASE-02280
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (415) 705-8410
;       TELEFAX:  (415) 397-8338
;   INFORMATION FOR SEQ ID NO:  24:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  906 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  double
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  DNA (genomic)
;     FEATURE:
;       NAME/KEY:  CDS
;       LOCATION:  1..906
US-09-217-847-24

Alignment Scores:
Pred. No.:                2.05e-51      Length:          906
Score:                    487.50        Matches:         96
Percent Similarity:       83.47%        Conservative:    5
Best Local Similarity:    79.34%        Mismatches:      13
Query Match:              79.92%        Indels:          7
DB:                       3             Gaps:            1

US-09-724-409-7 (1-114) x US-09-217-847-24 (1-906)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        379 GAGGTTCAGCTTCAGCAGTCTGGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATA 438

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              |||||||||   |||||||||:::|||     |||   :::|||||||||||||||||||
Db        439 TCCTGCAAGACTTCTGGATACACATTCATTGAATATACCATGCACTGGGTGAAGCAGAGC 498

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||   :::   |||||||||||||||||||||||||
Db        499 CATGGAAAGAGCCTTGAGTGGATTGGAGGTATTAATCCTAACAATGGTGGTACTAGTTAC 558

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||||||||||   ||||||||||||||||||:::|||||||||
Db        559 AACCAGAAGTTCAAGGGCAAGGCCACATTGACTGTAGACAAGTCCTCCACCACAGCCTAC 618

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||   |||||||||||||||||||||||||||   |||||||||
Db        619 ATGGAGCTCCGCGGCCTGACATCTGAGGATTCTGCAGTCTATTCCTGTGCAAGATACTAT 678

Qy        101 IleTyr--------------------TrpTrpGlyHisGlyThrThrLeuThrValSer 113
                 |||                    :::|||||||   ||||||||||||||||||||
Db        679 AGGTACGACGTTCTCTCTGCTATGGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCC 738

Qy        114 Ser 114
```

```
                 |||
Db        739 TCA 741

RESULT 10
US-09-647-468-6
; Sequence 6, Application US/09647468
; Patent No. 6677436
; GENERAL INFORMATION:
;  APPLICANT: SATO, KOH
;  APPLICANT:  ADACHI, HIDEKI
;  APPLICANT:  YABUTA, NAOHIRO
;  TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
;  TITLE OF INVENTION:  PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
;  FILE REFERENCE: 053466/0289
;  CURRENT APPLICATION NUMBER: US/09/647,468
;  CURRENT FILING DATE:  2000-09-29
;  PRIOR APPLICATION NUMBER: PCT/JP99/01768
;  PRIOR FILING DATE: 1999-04-02
;  PRIOR APPLICATION NUMBER: JP 10-91850
;  PRIOR FILING DATE: 1998-04-03
;  NUMBER OF SEQ ID NOS: 183
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 411
;   TYPE: DNA
;   ORGANISM: Mus sp.
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
;   OTHER INFORMATION: sequence coding for H chain V region of anti-TF
;   OTHER INFORMATION: mouse monoclonal antibody ATR-2
;   NAME/KEY: sig_peptide
;   LOCATION: (1)..(57)
;   NAME/KEY: mat_peptide
;   LOCATION: (58)..(411)
;   NAME/KEY: CDS
;   LOCATION: (1)..(411)
US-09-647-468-6

Alignment Scores:
Pred. No.:                8.24e-52      Length:          411
Score:                    487.00        Matches:         95
Percent Similarity:       87.29%        Conservative:    8
Best Local Similarity:    80.51%        Mismatches:      11
Query Match:              79.84%        Indels:          4
DB:                       4             Gaps:            2

US-09-724-409-7 (1-114) x US-09-647-468-6 (1-411)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              |||:::|||||||||||||||||||||:::|||||||||||||||||||||||||||:::
Db         58 GAGATCCAGCTGCAGCAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGGTA 117

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              |||||||||||||||||||||||||||||   |||   ::::::|||||||||||||||||
Db        118 TCCTGCAAGGCTTCTGGTTACTCATTCACTGACTACAACATGTACTGGGTGAAGCAGAGC 177

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              |||||||||||||||||||||||||||||   :::   |||   |||||||||||||   |||
Db        178 CATGGAAAGAGCCTTGAGTGGATTGGATATATTGATCCTTACAATGGTGGTACTATCTAC 237

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||||||||||||||   ||||||||||||||||||||||||||||:::
Db        238 AACCAGAAGTTCAAGGGCAAGGCCACATTGACTGTTGACAAGTCCTCCAGCACAGCCTTC 297

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArg------ 98
              |||   |||   ||||||||||||||||||||||||||||||||||||||||||||||
Db        298 ATGCATCTCAACAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGGAGGG 357

Qy         99 GluGlyIleTyr------TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
              ||||||   |||      :::|||||||   ||||||||||||||||||||||
Db        358 GAAGGGTACTACTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 411

RESULT 11
```

```
US-09-647-468-7
; Sequence 7, Application US/09647468
; Patent No. 6677436
; GENERAL INFORMATION:
;  APPLICANT: SATO, KOH
;  APPLICANT:  ADACHI, HIDEKI
;  APPLICANT:  YABUTA, NAOHIRO
;  TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
;  TITLE OF INVENTION:  PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
;  FILE REFERENCE: 053466/0289
;  CURRENT APPLICATION NUMBER: US/09/647,468
;  CURRENT FILING DATE:  2000-09-29
;  PRIOR APPLICATION NUMBER: PCT/JP99/01768
;  PRIOR FILING DATE: 1999-04-02
;  PRIOR APPLICATION NUMBER: JP 10-91850
;  PRIOR FILING DATE: 1998-04-03
;  NUMBER OF SEQ ID NOS: 183
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
;   LENGTH: 411
;   TYPE: DNA
;   ORGANISM: Mus sp.
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
;   OTHER INFORMATION: sequence coding for H chain V region of anti-TF
;   OTHER INFORMATION: mouse monoclonal antibody ATR-3
;   NAME/KEY: sig_peptide
;   LOCATION: (1)..(57)
;   NAME/KEY: mat_peptide
;   LOCATION: (58)..(411)
;   NAME/KEY: CDS
;   LOCATION: (1)..(411)
US-09-647-468-7

Alignment Scores:
Pred. No.:              8.24e-52        Length:         411
Score:                  487.00          Matches:        95
Percent Similarity:     87.29%          Conservative:   8
Best Local Similarity:  80.51%          Mismatches:     11
Query Match:            79.84%          Indels:         4
DB:                     4               Gaps:           2

US-09-724-409-7 (1-114) x US-09-647-468-7 (1-411)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              |||:::|||||||||||||||||||||:::|||||||||||||||||||||||||||:::
Db         58 GAGATCCAGCTGCAGCAGTCTGGACCTGAGCTGGTGAAGCCTGGGGCTTCAGTGAAGGTA 117

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              |||||||||||||||||||||||||||||||   |||   ::::::|||||||||||||||
Db        118 TCCTGCAAGGCTTCTGGTTACTCATTCACTGACTACAACATGTACTGGGTGAAGCAGAGC 177

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              |||||||||||||||||||||||||||   :::   |||   ||||||||||||   |||
Db        178 CATGGAAAGAGCCTTGAGTGGATTGGATATATTGATCCTTACAATGGTGGTACTATCTAC 237

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              |||||||||||||||||||||||   |||||||||||||||||||||||||||||||:::
Db        238 AACCAGAAGTTCAAGGGCAAGGCCACATTGACTGTTGACAAGTCCTCCAGCACAGCCTTC 297

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArg------ 98
              |||   |||  ||||||||||||||||||||||||||||||||||||||||||||||
Db        298 ATGCATCTCAACAGCCTGACATCTGAGGACTCTGCAGTCTATTACTGTGCAAGAGGAGGG 357

Qy         99 GluGlyIleTyr------TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
              ||||||   |||      :::|||||   |||||||||||||||||||||||
Db        358 GAAGGGTACTACTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 411

RESULT 12
US-08-838-682-6
; Sequence 6, Application US/08838682
; Patent No. 6107090
;  GENERAL INFORMATION:
;    APPLICANT:  Bander M.D., Neil H.
;    TITLE OF INVENTION:  TREATMENT AND DIAGNOSIS OF PROSTATE
;    TITLE OF INVENTION:  CANCER
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Nixon, Hargrave, Devans & Doyle LLP
;      STREET:  Clinton Square, P.O. Box 1051
;      CITY:  Rochester
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  14603-1051
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/838,682
;      FILING DATE:
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/016,976
;      FILING DATE:  06-MAY-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/022,125
;      FILING DATE:  18-JUL-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldman, Michael L.
;      REGISTRATION NUMBER:  30,727
;      REFERENCE/DOCKET NUMBER:  19603/1172
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (716) 263-1304
;      TELEFAX:  (716) 263-1600
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  345 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
US-08-838-682-6

Alignment Scores:
Pred. No.:              1.77e-51        Length:         345
Score:                  483.50          Matches:        93
Percent Similarity:     87.83%          Conservative:   8
Best Local Similarity:  80.87%          Mismatches:     13
Query Match:            79.26%          Indels:         1
DB:                     3               Gaps:           1

US-09-724-409-7 (1-114) x US-08-838-682-6 (1-345)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              ||||||||||||||||||||||||||:::|||||||||||||||   ||||||:::|||
Db          1 GAGGTCCAGCTGCAACAGTCTGGACCTGAACTGGTGAAGCCTGGGACTTCAGTGAGGATA 60

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              |||||||||   |||||||||:::||||||   |||   ||||||||||||||||||||
Db         61 TCCTGCAAGACTTCTGGATACACATTCACTGAATATACCATACACTGGGTGAAGCAGAGC 120

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              |||||||||||||||||||||||||   :::   ||||||||||||||||:::|||
Db        121 CATGGAAAGAGCCTTGAGTGGATTGGAAACATCAATCCTAACAATGGTGGTACCACCTAC 180

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||:::   ||||||   ||||||||||||||||||||||||||||||||||
Db        181 AATCAGAAGTTCGAGGACAAGGCCACATTGACTGTAGACAAGTCCTCCAGTACAGCCTAC 240

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 ATGGAGCTCCGCAGCCTAACATCTGAGGATTCTGCAGTCTATTATTGTGCAGCTGGTTGG 300

Qy        101 IleTyr---TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
```

```
                ::   :::|||||   |||||||||||||||||||||||
Db        301 AACTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 345

RESULT 13
US-08-838-682-7/c
; Sequence 7, Application US/08838682
; Patent No. 6107090
;  GENERAL INFORMATION:
;    APPLICANT:  Bander M.D., Neil H.
;    TITLE OF INVENTION:  TREATMENT AND DIAGNOSIS OF PROSTATE
;    TITLE OF INVENTION:  CANCER
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Nixon, Hargrave, Devans & Doyle LLP
;      STREET:  Clinton Square, P.O. Box 1051
;      CITY:  Rochester
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  14603-1051
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/838,682
;      FILING DATE:
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/016,976
;      FILING DATE:  06-MAY-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/022,125
;      FILING DATE:  18-JUL-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldman, Michael L.
;      REGISTRATION NUMBER:  30,727
;      REFERENCE/DOCKET NUMBER:  19603/1172
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (716) 263-1304
;      TELEFAX:  (716) 263-1600
;  INFORMATION FOR SEQ ID NO:  7:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  345 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
US-08-838-682-7

Alignment Scores:
Pred. No.:                1.77e-51      Length:          345
Score:                    483.50        Matches:         93
Percent Similarity:       87.83%        Conservative:    8
Best Local Similarity:    80.87%        Mismatches:      13
Query Match:              79.26%        Indels:          1
DB:                       3             Gaps:            1

US-09-724-409-7 (1-114) x US-08-838-682-7 (1-345)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              |||||||||||||||||||||||||||:::|||||||||||||||    ||||||:::|||
Db        345 GAGGTCCAGCTGCAACAGTCTGGACCTGAACTGGTGAAGCCTGGGACTTCAGTGAGGATA 286

Qy         21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
              |||||||||   |||||||||:::||||||   |||   ||||||||||||||||||||
Db        285 TCCTGCAAGACTTCTGGATACACATTCACTGAATATACCATACACTGGGTGAAGCAGAGC 226

Qy         41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
              ||||||||||||||||||||||||||   :::   ||||||||||||||||||:::|||
Db        225 CATGGAAAGAGCCTTGAGTGGATTGGAAACATCAATCCTAACAATGGTGGTACCACCTAC 166

Qy         61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
              ||||||||||||:::   ||||||   ||||||||||||||||||||||||||||||||
Db        165 AATCAGAAGTTCGAGGACAAGGCCACATTGACTGTAGACAAGTCCTCCAGTACAGCCTAC 106

Qy         81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        105 ATGGAGCTCCGCAGCCTAACATCTGAGGATTCTGCAGTCTATTATTGTGCAGCTGGTTGG 46

Qy        101 IleTyr---TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
                 :::   :::||||||   ||||||||||||||||||||||
Db         45 AACTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 1

RESULT 14
US-08-895-914-6
; Sequence 6, Application US/08895914
; Patent No. 6136311
;  GENERAL INFORMATION:
;    APPLICANT:  Bander, Neil H.
;    TITLE OF INVENTION:  TREATMENT AND DIAGNOSIS OF CANCER
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Nixon, Hargrave, Devans & Doyle LLP
;      STREET:  Clinton Square, P.O. Box 1051
;      CITY:  Rochester
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  14603-1051
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/895,914
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/016,976
;      FILING DATE:  06-MAY-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/022,125
;      FILING DATE:  18-JUL-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/838,682
;      FILING DATE:  09-APR-1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldman, Michael L.
;      REGISTRATION NUMBER:  30,727
;      REFERENCE/DOCKET NUMBER:  19603/1173
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (716) 263-1304
;      TELEFAX:  (716) 263-1600
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  345 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
US-08-895-914-6

Alignment Scores:
Pred. No.:                1.77e-51      Length:          345
Score:                    483.50        Matches:         93
Percent Similarity:       87.83%        Conservative:    8
Best Local Similarity:    80.87%        Mismatches:      13
Query Match:              79.26%        Indels:          1
DB:                       3             Gaps:            1

US-09-724-409-7 (1-114) x US-08-895-914-6 (1-345)

Qy          1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
              |||||||||||||||||||||||||||:::|||||||||||||||    ||||||:::|||
Db          1 GAGGTCCAGCTGCAACAGTCTGGACCTGAACTGGTGAAGCCTGGGACTTCAGTGAGGATA 60
```

```
Qy          21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
               ||||||||    |||||||||:::||||||   |||   ||||||||||||||||||
Db          61 TCCTGCAAGACTTCTGGATACACATTCACTGAATATACCATACACTGGGTGAAGCAGAGC 120

Qy          41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
               ||||||||||||||||||||||||||   :::   |||||||||||||||||:::|||
Db         121 CATGGAAAGAGCCTTGAGTGGATTGGAAACATCAATCCTAACAATGGTGGTACCACCTAC 180

Qy          61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
               ||||||||||||:::   ||||||   ||||||||||||||||||||||||||||||
Db         181 AATCAGAAGTTCGAGGACAAGGCCACATTGACTGTAGACAAGTCCTCCAGTACAGCCTAC 240

Qy          81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         241 ATGGAGCTCCGCAGCCTAACATCTGAGGATTCTGCAGTCTATTATTGTGCAGCTGGTTGG 300

Qy         101 IleTyr---TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
                  :::   :::||||||   ||||||||||||||||||||||
Db         301 AACTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 345
```

RESULT 15
US-08-895-914-7/c
; Sequence 7, Application US/08895914
; Patent No. 6136311
; GENERAL INFORMATION:
; APPLICANT: Bander, Neil H.
; TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF CANCER
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603-1051
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/895,914
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/016,976
; FILING DATE: 06-MAY-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/022,125
; FILING DATE: 18-JUL-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/838,682
; FILING DATE: 09-APR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1173
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 345 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-895-914-7

Alignment Scores:

Pred. No.:	1.77e-51	Length:	345
Score:	483.50	Matches:	93
Percent Similarity:	87.83%	Conservative:	8
Best Local Similarity:	80.87%	Mismatches:	13
Query Match:	79.26%	Indels:	1
DB:	3	Gaps:	1

US-09-724-409-7 (1-114) x US-08-895-914-7 (1-345)

```
Qy           1 GluValGlnLeuGlnGlnSerGlyProAspLeuValLysProGlyAlaSerValLysIle 20
               ||||||||||||||||||||||||||:::||||||||||||||   |||||||:::|||
Db         345 GAGGTCCAGCTGCAACAGTCTGGACCTGAACTGGTGAAGCCTGGGACTTCAGTGAGGATA 286

Qy          21 SerCysLysAlaSerGlyTyrSerPheThrGlyTyrTyrIleHisTrpValLysGlnSer 40
               ||||||||    |||||||||:::||||||   |||   ||||||||||||||||||
Db         285 TCCTGCAAGACTTCTGGATACACATTCACTGAATATACCATACACTGGGTGAAGCAGAGC 226

Qy          41 HisGlyLysSerLeuGluTrpIleGlyArgValIleProAsnAsnGlyGlyThrSerTyr 60
               ||||||||||||||||||||||||||   :::   |||||||||||||||||:::|||
Db         225 CATGGAAAGAGCCTTGAGTGGATTGGAAACATCAATCCTAACAATGGTGGTACCACCTAC 166

Qy          61 AsnGlnLysPheLysGlyLysAlaIleLeuThrValAspLysSerSerSerThrAlaTyr 80
               ||||||||||||:::   ||||||   ||||||||||||||||||||||||||||||
Db         165 AATCAGAAGTTCGAGGACAAGGCCACATTGACTGTAGACAAGTCCTCCAGTACAGCCTAC 106

Qy          81 MetGluLeuArgSerLeuThrSerGluAspSerAlaValTyrTyrCysAlaArgGluGly 100
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         105 ATGGAGCTCCGCAGCCTAACATCTGAGGATTCTGCAGTCTATTATTGTGCAGCTGGTTGG 46

Qy         101 IleTyr---TrpTrpGlyHisGlyThrThrLeuThrValSerSer 114
                  :::   :::||||||   ||||||||||||||||||||||
Db          45 AACTTTGACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCA 1
```

Search completed: May 13, 2004, 07:58:51
Job time : 62.5221 secs

GenCore version 5.1.6

OM protein - nucleic search, using frame_plus_p2n model

Run on: May 13, 2004, 07:32:28 ; Search time 338.478 Seconds
(without alignments)
1501.609 Million cell updates/sec

Title: US-09-724-409-2
Perfect score: 587
Sequence: 1 DVVVTQTPLSLPVSLGAQAS.....CSQTTHVPWTFGGGTKLEIQ 112

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 2947324 seqs, 2269024515 residues

Total number of hits satisfying chosen parameters: 5894648

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+_p2n.model -DEV=xlh
-Q=/cgn2_1/USPTO_spool/US09724409/runat_12052004_081345_2745/app_query.fasta_1.526
-DB=Published_Applications_NA -QFMT=fastap -SUFFIX=p2n.rnpb -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100
-THR_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US09724409_@CGN_1_1_580_@runat_12052004_081345_2745
-NCPU=6 -ICPU=3 -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100
-LONGLOG -DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published_Applications_NA:*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq2:*
14: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
15: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
16: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
17: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
18: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	552	94.0	419	13	US-10-372-481-28	Sequence 28, Appl
	2	552	94.0	419	16	US-10-371-797-28	Sequence 28, Appl
	3	541	92.2	336	10	US-09-518-737-3	Sequence 3, Appli
	4	537	91.5	384	9	US-09-753-436-44	Sequence 44, Appl
	5	537	91.5	384	15	US-10-163-942-44	Sequence 44, Appl
	6	535	91.1	336	15	US-10-153-401-22	Sequence 22, Appl
	7	534	91.0	336	15	US-10-153-401-26	Sequence 26, Appl
	8	534	91.0	779	9	US-09-887-853-3	Sequence 3, Appli
	9	533	90.8	723	9	US-09-978-752-7	Sequence 7, Appli
	10	533	90.8	879	9	US-09-978-752-22	Sequence 22, Appl
	11	532	90.6	336	10	US-09-995-529-9	Sequence 9, Appli
	12	532	90.6	336	15	US-10-153-401-17	Sequence 17, Appl
	13	532	90.6	336	15	US-10-153-401-18	Sequence 18, Appl
	14	532	90.6	336	15	US-10-153-401-19	Sequence 19, Appl
	15	532	90.6	336	15	US-10-153-401-25	Sequence 25, Appl
	16	531	90.5	333	15	US-10-153-401-20	Sequence 20, Appl
	17	531	90.5	339	9	US-09-978-752-6	Sequence 6, Appli
	18	527	89.8	394	12	US-10-221-131-5	Sequence 5, Appli
	19	527	89.8	394	12	US-10-221-131-7	Sequence 7, Appli
	20	527	89.8	394	13	US-10-257-864A-5	Sequence 5, Appli
	21	527	89.8	394	13	US-10-257-864A-7	Sequence 7, Appli
	22	527	89.8	394	15	US-10-138-505-5	Sequence 5, Appli
	23	527	89.8	394	15	US-10-138-505-9	Sequence 9, Appli
	24	527	89.8	741	12	US-10-221-131-29	Sequence 29, Appl
	25	527	89.8	741	13	US-10-257-864A-29	Sequence 29, Appl
	26	527	89.8	741	15	US-10-138-505-39	Sequence 39, Appl
	27	527	89.8	780	12	US-10-221-131-48	Sequence 48, Appl
	28	527	89.8	780	12	US-10-221-131-54	Sequence 54, Appl
	29	527	89.8	780	13	US-10-257-864A-48	Sequence 48, Appl
	30	527	89.8	780	13	US-10-257-864A-54	Sequence 54, Appl
	31	527	89.8	819	12	US-10-221-131-23	Sequence 23, Appl
	32	527	89.8	819	12	US-10-221-131-25	Sequence 25, Appl
	33	527	89.8	819	13	US-10-257-864A-23	Sequence 23, Appl
	34	527	89.8	819	13	US-10-257-864A-25	Sequence 25, Appl
	35	527	89.8	819	15	US-10-138-505-29	Sequence 29, Appl
	36	527	89.8	819	15	US-10-138-505-33	Sequence 33, Appl
	37	527	89.8	828	12	US-10-221-131-20	Sequence 20, Appl
	38	527	89.8	828	12	US-10-221-131-24	Sequence 24, Appl
	39	527	89.8	828	13	US-10-257-864A-20	Sequence 20, Appl
	40	527	89.8	828	13	US-10-257-864A-24	Sequence 24, Appl
	41	527	89.8	828	15	US-10-138-505-25	Sequence 25, Appl
	42	527	89.8	828	15	US-10-138-505-31	Sequence 31, Appl
	43	527	89.8	856	9	US-09-883-758-3	Sequence 3, Appli
c	44	527	89.8	856	9	US-09-883-758-6	Sequence 6, Appli
	45	527	89.8	1605	12	US-10-221-131-32	Sequence 32, Appl

ALIGNMENTS

RESULT 1
US-10-372-481-28
; Sequence 28, Application US/10372481
; Publication No. US20030202975A1
; GENERAL INFORMATION:
; APPLICANT: Tedder, Thomas F.
; TITLE OF INVENTION: REAGENTS AND TREATMENT METHODS FOR AUTOIMMUNE DISEASES
; FILE REFERENCE: 5405.306
; CURRENT APPLICATION NUMBER: US/10/372,481
; CURRENT FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: PCT/US03/05549
; PRIOR FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US 60/420,472
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/359,419
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 28
; LENGTH: 419
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-372-481-28

```
Alignment Scores:
Pred. No.:                2.23e-67        Length:         419
Score:                    552.00          Matches:        105
Percent Similarity:       98.21%          Conservative:   5
Best Local Similarity:    93.75%          Mismatches:     2
Query Match:              94.04%          Indels:         0
DB:                       13              Gaps:           0

US-09-724-409-2 (1-112) x US-10-372-481-28 (1-419)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||   |||||||||
Db         58 GATGTTGTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 117

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||||||||||||||||:::|||||||||
Db        118 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACATTGG 177

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              |||||||||||||||||||||||||||||||||||   |||||||||||||||
Db        178 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 237

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        238 TCTGGGGTCCCAGATAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 297

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||||||:::|||||||||||||
Db        298 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 357

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              :::|||||||||||||||||||||||||||:::
Db        358 TACACGTTCGGAGGGGGGACCAAGCTGGAAATAAAA 393

RESULT 2
US-10-371-797-28
; Sequence 28, Application US/10371797
; Publication No. US20040001828A1
; GENERAL INFORMATION:
;  APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
;  APPLICANT:  TUSCANO, Joseph
;  APPLICANT:  TEDDER, Thomas
;  TITLE OF INVENTION: TREATMENT METHODS USING ANTI-CD22
;  TITLE OF INVENTION:  ANTIBODIES
;  FILE REFERENCE: 39754-0951
;  CURRENT APPLICATION NUMBER: US/10/371,797
;  CURRENT FILING DATE:  2003-02-21
;  PRIOR APPLICATION NUMBER: US 60/420,472
;  PRIOR FILING DATE: 2002-10-21
;  PRIOR APPLICATION NUMBER: US 60/359,419
;  PRIOR FILING DATE: 2002-02-21
;  NUMBER OF SEQ ID NOS: 31
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 28
;   LENGTH: 419
;   TYPE: DNA
;   ORGANISM: homo sapiens
US-10-371-797-28

Alignment Scores:
Pred. No.:                2.23e-67        Length:         419
Score:                    552.00          Matches:        105
Percent Similarity:       98.21%          Conservative:   5
Best Local Similarity:    93.75%          Mismatches:     2
Query Match:              94.04%          Indels:         0
DB:                       16              Gaps:           0

US-09-724-409-2 (1-112) x US-10-371-797-28 (1-419)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||   |||||||||
Db         58 GATGTTGTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 117

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||||||||||||||||:::|||||||||
Db        118 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACATTGG 177

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              |||||||||||||||||||||||||||||||||||   |||||||||||||||
Db        178 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 237

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        238 TCTGGGGTCCCAGATAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 297

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||||||:::|||||||||||||
Db        298 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 357

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              :::|||||||||||||||||||||||||||:::
Db        358 TACACGTTCGGAGGGGGGACCAAGCTGGAAATAAAA 393

RESULT 3
US-09-518-737-3
; Sequence 3, Application US/09518737
; Publication No. US20030008321A1
; GENERAL INFORMATION:
;  APPLICANT: FUKUI, YASUHISA
;  APPLICANT:  NAGATA, SATOSHI
;  APPLICANT:  SHIRAI, RYUICHI
;  APPLICANT:  SAITO, NAOAKI
;  TITLE OF INVENTION: MONOCLONAL ANTIBODY RECOGNIZING
;  TITLE OF INVENTION:  PHOSPHATIDYLINOSITOL-3,4-DIPHOSPHATE
;  FILE REFERENCE: 1965/49618
;  CURRENT APPLICATION NUMBER: US/09/518,737
;  CURRENT FILING DATE:  2000-03-03
;  PRIOR APPLICATION NUMBER: JP 1999-250209
;  PRIOR FILING DATE: 1999-09-03
;  NUMBER OF SEQ ID NOS: 10
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
;   LENGTH: 336
;   TYPE: DNA
;   ORGANISM: Mus musculus
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)..(336)
US-09-518-737-3

Alignment Scores:
Pred. No.:                5.65e-66        Length:         336
Score:                    541.00          Matches:        103
Percent Similarity:       97.32%          Conservative:   6
Best Local Similarity:    91.96%          Mismatches:     3
Query Match:              92.16%          Indels:         0
DB:                       10              Gaps:           0

US-09-724-409-2 (1-112) x US-09-518-737-3 (1-336)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||   |||||||||
Db          1 GATGTTGTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAGGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||||||||||||||||:::|||||||||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACATTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              |||||||||||||||||||||||||||||||||||   |||||||||||||||
Db        121 TACCTCCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||:::   |||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGAACAAGGACAGATTTCACACTCAAGATC 240
```

```
Qy          81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
               ||||||||||||||||||||||||||||||||||||||||||||:::|||||||||||||
Db         241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy         101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
               :::|||||||||||||||||||||||||||||:::
Db         301 TACACGTTCGGAGGGGGGACCAAGCTGGAAATAAAA 336

RESULT 4
US-09-753-436-44
; Sequence 44, Application US/09753436
; Patent No. US20010029293A1
;  GENERAL INFORMATION:
;     APPLICANT:  Gallatin, W. Michael
;     APPLICANT:  Vazeux, Rosemay
;     TITLE OF INVENTION:  ICAM-Related Materials and Methods
;     NUMBER OF SEQUENCES:  120
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;       STREET:  6300 Sears Tower, 233 South Wacker Drive
;       CITY:  Chicago
;       STATE:  Illinois
;       COUNTRY:  United States of America
;       ZIP:  60606-6402
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/753,436
;       FILING DATE:
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  09/382,289
;       FILING DATE:
;       APPLICATION NUMBER:  US 08/487,113
;       FILING DATE:  07-JUN-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/286,754
;       FILING DATE:  05-AUG-1994
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/102,852
;       FILING DATE:  05-AUG-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/009,266
;       FILING DATE:  22-JAN-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/894,061
;       FILING DATE:  05-JUN-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/889,724
;       FILING DATE:  26-MAY-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/827,689
;       FILING DATE:  27-JAN-1992
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Williams, Joseph A., Jr.
;       REGISTRATION NUMBER:  38,659
;       REFERENCE/DOCKET NUMBER:  33282
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (312) 474-6300
;       TELEFAX:  (312) 474-0448
;       TELEX:  25-3856
;  INFORMATION FOR SEQ ID NO:  44:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  384 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  single
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  DNA
US-09-753-436-44
```

```
Alignment Scores:
Pred. No.:                2.45e-65        Length:          384
Score:                    537.00          Matches:         101
Percent Similarity:       97.32%          Conservative:    8
Best Local Similarity:    90.18%          Mismatches:      3
Query Match:              91.48%          Indels:          0
DB:                       9               Gaps:            0

US-09-724-409-2 (1-112) x US-09-753-436-44 (1-384)

Qy           1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
               |||   |||:::|||||||||||||||||||||||||||||||||||   |||||||||
Db          49 GACGCTGTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 108

Qy          21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
               ||||||||||||||||||||||||||||||||||||||||||:::|||:::|||||||||
Db         109 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAGACACCTATTTACATTGG 168

Qy          41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
               |||||||||||||||||||||||||:::|||||||||||   |||||||||||||||
Db         169 TACCTGCAGAAGCCAGGCCAGTCTCCACAGCTCCTGATCTACAAAGTTTCCAACCGATTT 228

Qy          61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||:::
Db         229 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGCTC 288

Qy          81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
               ||||||||||||||||||||||||||||||||||||||||||||:::|||||||||||||
Db         289 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 348

Qy         101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
               :::|||||||||||||||||||||||||||||:::
Db         349 TACACGTTCGGAGGGGGGACCAAGCTGGAAATAAAA 384

RESULT 5
US-10-163-942-44
; Sequence 44, Application US/10163942
; Publication No. US20030199423A1
;   GENERAL INFORMATION:
;        APPLICANT: Gallatin, W. Michael
;                   Vazeux, Rosemay
;        TITLE OF INVENTION: ICAM-Related Materials and Methods
;        NUMBER OF SEQUENCES: 120
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
;             STREET: 6300 Sears Tower, 233 South Wacker Drive
;             CITY: Chicago
;             STATE: Illinois
;             COUNTRY: United States of America
;             ZIP: 60606-6402
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/163,942
;             FILING DATE: 05-Jun-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/753,436
;             FILING DATE: <Unknown>
;             APPLICATION NUMBER: 09/382,289
;             FILING DATE: <Unknown>
;             APPLICATION NUMBER: US 08/487,113
;             FILING DATE: 07-JUN-1995
;             APPLICATION NUMBER: US 08/286,754
;             FILING DATE: 05-AUG-1994
;             APPLICATION NUMBER: US 08/102,852
;             FILING DATE: 05-AUG-1993
;             APPLICATION NUMBER: US 08/009,266
;             FILING DATE: 22-JAN-1993
```

```
;             APPLICATION NUMBER: US 07/894,061
;             FILING DATE: 05-JUN-1992
;             APPLICATION NUMBER: US 07/889,724
;             FILING DATE: 26-MAY-1992
;             APPLICATION NUMBER: US 07/827,689
;             FILING DATE: 27-JAN-1992
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Williams, Joseph A., Jr.
;             REGISTRATION NUMBER: 38,659
;             REFERENCE/DOCKET NUMBER: 33282
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (312) 474-6300
;             TELEFAX: (312) 474-0448
;             TELEX: 25-3856
;   INFORMATION FOR SEQ ID NO: 44:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 384 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: DNA
;        SEQUENCE DESCRIPTION: SEQ ID NO: 44:
US-10-163-942-44

Alignment Scores:
Pred. No.:                2.45e-65       Length:          384
Score:                    537.00         Matches:         101
Percent Similarity:       97.32%         Conservative:    8
Best Local Similarity:    90.18%         Mismatches:      3
Query Match:              91.48%         Indels:          0
DB:                       15             Gaps:            0

US-09-724-409-2 (1-112) x US-10-163-942-44 (1-384)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||   |||:::|||||||||||||||||||||||||||||||||||   |||||||||
Db         49 GACGCTGTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 108

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              ||||||||||||||||||||||||||||||||||||:::|||:::|||||||||
Db        109 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAGACACCTATTTACATTGG 168

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||:::|||||||||||   ||||||||||||||
Db        169 TACCTGCAGAAGCCAGGCCAGTCTCCACAGCTCCTGATCTACAAAGTTTCCAACCGATTT 228

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||:::
Db        229 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGCTC 288

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||||:::|||||||||||||
Db        289 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 348

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              :::|||||||||||||||||||||||||||||:::
Db        349 TACACGTTCGGAGGGGGGACCAAGCTGGAAATAAAA 384

RESULT 6
US-10-153-401-22
; Sequence 22, Application US/10153401
; Publication No. US20030114398A1
;   GENERAL INFORMATION:
;        APPLICANT: Chatterjee, Malaya
;                   Foon, Kenneth A.
;                   Chatterjee, Sunil K.
;        TITLE OF INVENTION: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE
;                            TREATMENT OF MELANOMA AND SMALL CELL CARCINOMA
;        NUMBER OF SEQUENCES: 66
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: MORRISON & FOERSTER
;             STREET: 755 PAGE MILL ROAD
;             CITY: PALO ALTO
;             STATE: CA
;             COUNTRY: USA
;             ZIP: 94304-1018
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/153,401
;             FILING DATE: 27-Aug-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/293,533
;             FILING DATE: 1999-04-15
;             APPLICATION NUMBER: US 08/372,676
;             FILING DATE: 1995-01-17
;             APPLICATION NUMBER: US 08/591,196
;             FILING DATE: 1996-01-16
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Catherine M. Polizzi
;             REGISTRATION NUMBER: 40,130
;             REFERENCE/DOCKET NUMBER: 304142000202
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (415) 813-5600
;             TELEFAX: (415) 494-0792
;             TELEX: 706141
;   INFORMATION FOR SEQ ID NO: 22:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 336 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: DNA (genomic)
;        SEQUENCE DESCRIPTION: SEQ ID NO: 22:
US-10-153-401-22

Alignment Scores:
Pred. No.:                3.88e-65       Length:          336
Score:                    535.00         Matches:         101
Percent Similarity:       95.54%         Conservative:    6
Best Local Similarity:    90.18%         Mismatches:      5
Query Match:              91.14%         Indels:          0
DB:                       15             Gaps:            0

US-09-724-409-2 (1-112) x US-10-153-401-22 (1-336)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||   |||||||||
Db          1 GATGTTGTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              ||||||||||||||||||||||:::|||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||||||||||||||||||   ||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||:::|||   |||   :::||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

RESULT 7
US-10-153-401-26
```

```
; Sequence 26, Application US/10153401
; Publication No. US20030114398A1
;   GENERAL INFORMATION:
;        APPLICANT: Chatterjee, Malaya
;                   Foon, Kenneth A.
;                   Chatterjee, Sunil K.
;        TITLE OF INVENTION: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE
;                            TREATMENT OF MELANOMA AND SMALL CELL CARCINOMA
;        NUMBER OF SEQUENCES: 66
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: MORRISON & FOERSTER
;             STREET: 755 PAGE MILL ROAD
;             CITY: PALO ALTO
;             STATE: CA
;             COUNTRY: USA
;             ZIP: 94304-1018
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/153,401
;             FILING DATE: 27-Aug-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/293,533
;             FILING DATE: 1999-04-15
;             APPLICATION NUMBER: US 08/372,676
;             FILING DATE: 1995-01-17
;             APPLICATION NUMBER: US 08/591,196
;             FILING DATE: 1996-01-16
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Catherine M. Polizzi
;             REGISTRATION NUMBER: 40,130
;             REFERENCE/DOCKET NUMBER: 304142000202
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (415) 813-5600
;             TELEFAX: (415) 494-0792
;             TELEX: 706141
;    INFORMATION FOR SEQ ID NO: 26:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 336 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: DNA (genomic)
;        SEQUENCE DESCRIPTION: SEQ ID NO: 26:
US-10-153-401-26

Alignment Scores:
Pred. No.:                5.35e-65        Length:          336
Score:                    534.00          Matches:         101
Percent Similarity:       95.54%          Conservative:    6
Best Local Similarity:    90.18%          Mismatches:      5
Query Match:              90.97%          Indels:          0
DB:                       15              Gaps:            0

US-09-724-409-2 (1-112) x US-10-153-401-26 (1-336)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              ||||||:::::|||||||||||||||||||||||||||||||||||   |||||||||
Db          1 GATGTTTTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              ||||||||||||||||||||||:::|||||||||:::|||||||||||||||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAGTGGAAACACCTTTTTAGAATGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||||||||||||||||||    ||||||||||||||
Db        121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||:::|||   |||   ||||||||||||
Db        241 AGCAGGGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

RESULT 8
US-09-887-853-3
; Sequence 3, Application US/09887853
; Patent No. US20020168375A1
;   GENERAL INFORMATION:
;        APPLICANT: Huston, James S.
;                   Oppermann, Hermann
;                   Houston, L. L.
;                   Ring, David B.
;        TITLE OF INVENTION: Biosynthetic Binding Proteins For
;                            Imaging
;        NUMBER OF SEQUENCES: 11
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Testa, Hurwitz & Thibeault/Patent Department
;             STREET: Exchange Place, 53 State Street
;             CITY: Boston
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/887,853
;             FILING DATE: 21-Jun-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/08/133,804
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Kelley, Robin D.
;             REGISTRATION NUMBER: 34,637
;             REFERENCE/DOCKET NUMBER: 2054/22
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 617-248-7477
;             TELEFAX: 617-248-7100
;    INFORMATION FOR SEQ ID NO: 3:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 779 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: cDNA
;        FEATURE:
;             NAME/KEY:  CDS
;             LOCATION:  3..758
;             OTHER INFORMATION:  /product= "26-10 sFv' with
;             C-terminal Gly4-Cys"
;         SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-887-853-3

Alignment Scores:
Pred. No.:                1.71e-64        Length:          779
Score:                    534.00          Matches:         103
Percent Similarity:       96.43%          Conservative:    5
Best Local Similarity:    91.96%          Mismatches:      4
Query Match:              90.97%          Indels:          0
DB:                       9               Gaps:            0

US-09-724-409-2 (1-112) x US-09-887-853-3 (1-779)
```

```
Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||||    |||||||||
Db        402 GACGTCGTAATGACCCAGACTCCGCTGTCTCTGCCGGTTTCTCTGGGTGACCAGGCTTCT 461

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||||||||||||||||||||||:::|||:::|||
Db        462 ATTTCTTGCCGCTCTTCCCAGTCTCTGGTCCATTCTAATGGTAACACTTACCTGAACTGG 521

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||   |||||||||||||||||||||||||||   ||||||||||||||||
Db        522 TACCTGCAAAAGGCTGGTCAGTCTCCGAAGCTTCTGATCTACAAAGTCTCTAACCGCTTC 581

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        582 TCTGGTGTCCCGGATCGTTTCTCTGGTTCTGGTTCTGGTACTGACTTCACCCTGAAGATC 641

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              |||||||||||||||||||||||:::|||||||||||||||||||||||||||||||||
Db        642 TCTCGTGTCGAGGCCGAAGACCTGGGTATCTACTTCTGCTCTCAGACTACTCATGTACCG 701

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||:::
Db        702 CCGACTTTTGGTGGTGGCACCAAGCTCGAGATTAAA 737

RESULT 9
US-09-978-752-7
; Sequence 7, Application US/09978752
; Patent No. US20020150559A1
; GENERAL INFORMATION:
;  APPLICANT: Mark de Boer
;  APPLICANT:  Marcel Theodorus
;  TITLE OF INVENTION: Induction of T cell tolerance with
;  TITLE OF INVENTION:  CD40/B7 antagonists
;  FILE REFERENCE: 99-1
;  CURRENT APPLICATION NUMBER: US/09/978,752
;  CURRENT FILING DATE:  2001-10-15
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/235,073
;  PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-21
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/NL97/00438
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-23
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 7
;   LENGTH: 723
;   TYPE: DNA
;   ORGANISM: human
US-09-978-752-7

Alignment Scores:
Pred. No.:              2.12e-64        Length:         723
Score:                  533.00          Matches:        99
Percent Similarity:     97.32%          Conservative:   10
Best Local Similarity:  88.39%          Mismatches:     3
Query Match:            90.80%          Indels:         0
DB:                     9               Gaps:           0

US-09-724-409-2 (1-112) x US-09-978-752-7 (1-723)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||:::   :::|||||||:::|||||||||||||||||||||||||    :::||||||
Db        385 GACATCGAGCTCACTCAGTCTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCGAGCCTCC 444

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||:::|||||||||||||||:::|||||||||
Db        445 ATCTCTTGCAGATCTAGTCAGAGCCTTGTAAACAGTAATGGAAACACCTATTTACATTGG 504

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||||||||||   |||||||||||||||||||||||
Db        505 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 564

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Db        565 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATT 624

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              |||||||||||||||||||||||:::|||||||||:::|||||||||:::||||||||||||
Db        625 AGCAGAGTGGAGGCTGAGGATGTGGGAGTTTATTACTGCTCTCAAAGTACACATGTTCCG 684

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              |||||||||||||||||||||||||||||:::
Db        685 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATAAAA 720

RESULT 10
US-09-978-752-22
; Sequence 22, Application US/09978752
; Patent No. US20020150559A1
; GENERAL INFORMATION:
;  APPLICANT: Mark de Boer
;  APPLICANT:  Marcel Theodorus
;  TITLE OF INVENTION: Induction of T cell tolerance with
;  TITLE OF INVENTION:  CD40/B7 antagonists
;  FILE REFERENCE: 99-1
;  CURRENT APPLICATION NUMBER: US/09/978,752
;  CURRENT FILING DATE:  2001-10-15
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/235,073
;  PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-21
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/NL97/00438
;  PRIOR FILING DATE: EARLIER FILING DATE: 1997-07-23
;  NUMBER OF SEQ ID NOS: 22
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 22
;   LENGTH: 879
;   TYPE: DNA
;   ORGANISM: human
US-09-978-752-22

Alignment Scores:
Pred. No.:              2.78e-64        Length:         879
Score:                  533.00          Matches:        99
Percent Similarity:     97.32%          Conservative:   10
Best Local Similarity:  88.39%          Mismatches:     3
Query Match:            90.80%          Indels:         0
DB:                     9               Gaps:           0

US-09-724-409-2 (1-112) x US-09-978-752-22 (1-879)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              ||:::   :::|||||||:::|||||||||||||||||||||||||    :::||||||
Db        457 GACATTGAGCTCACTCAGTCTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCGAGCCTCC 516

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||:::|||||||||||||||:::|||||||||
Db        517 ATCTCTTGCAGATCTAGTCAGAGCCTTGTAAACAGTAATGGAAACACCTATTTACATTGG 576

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||||||||||   |||||||||||||||||||||||
Db        577 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 636

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        637 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATT 696

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              |||||||||||||||||||||||:::|||||||||:::|||||||||:::||||||||||||
Db        697 AGCAGAGTGGAGGCTGAGGATGTGGGAGTTTATTACTGCTCTCAAAGTACACATGTTCCG 756

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              |||||||||||||||||||||||||||||:::
Db        757 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATAAAA 792

RESULT 11
US-09-995-529-9
; Sequence 9, Application US/09995529
; Publication No. US20030099655A1
; GENERAL INFORMATION:
```

```
;  APPLICANT: Watkins, Jeffry D.
;  APPLICANT:  Huse, William D.
;  APPLICANT:  Tang, Ying
;  TITLE OF INVENTION: Humanized Collagen Antibodies and
;  TITLE OF INVENTION:  Related Methods
;  FILE REFERENCE: P-IX 4976
;  CURRENT APPLICATION NUMBER: US/09/995,529
;  CURRENT FILING DATE:  2001-11-26
;  NUMBER OF SEQ ID NOS: 358
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
;   LENGTH: 336
;   TYPE: DNA
;   ORGANISM: Mus musculus
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)...(336)
US-09-995-529-9

Alignment Scores:
Pred. No.:              1.02e-64      Length:          336
Score:                  532.00        Matches:         100
Percent Similarity:     95.54%        Conservative:    7
Best Local Similarity:  89.29%        Mismatches:      5
Query Match:            90.63%        Indels:          0
DB:                     10            Gaps:            0

US-09-724-409-2 (1-112) x US-09-995-529-9 (1-336)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||::::::|||||||||||||||||||||||||||||||||||||   |||||||||
Db          1 GATGTTTTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||:::|||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              |||||||||||||||||||||||||||||||||||||||||   |||||||||||||||
Db        121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGTGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||:::|||   |||   :::||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              |||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

RESULT 12
US-10-153-401-17
; Sequence 17, Application US/10153401
; Publication No. US20030114398A1
;   GENERAL INFORMATION:
;        APPLICANT: Chatterjee, Malaya
;                   Foon, Kenneth A.
;                   Chatterjee, Sunil K.
;        TITLE OF INVENTION: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE
;                            TREATMENT OF MELANOMA AND SMALL CELL CARCINOMA
;        NUMBER OF SEQUENCES: 66
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: MORRISON & FOERSTER
;             STREET: 755 PAGE MILL ROAD
;             CITY: PALO ALTO
;             STATE: CA
;             COUNTRY: USA
;             ZIP: 94304-1018
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/153,401
;             FILING DATE: 27-Aug-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/293,533
;             FILING DATE: 1999-04-15
;             APPLICATION NUMBER: US 08/372,676
;             FILING DATE: 1995-01-17
;             APPLICATION NUMBER: US 08/591,196
;             FILING DATE: 1996-01-16
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Catherine M. Polizzi
;             REGISTRATION NUMBER: 40,130
;             REFERENCE/DOCKET NUMBER: 304142000202
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (415) 813-5600
;             TELEFAX: (415) 494-0792
;             TELEX: 706141
;   INFORMATION FOR SEQ ID NO: 17:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 336 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: DNA (genomic)
;        SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-10-153-401-17

Alignment Scores:
Pred. No.:              1.02e-64      Length:          336
Score:                  532.00        Matches:         100
Percent Similarity:     95.54%        Conservative:    7
Best Local Similarity:  89.29%        Mismatches:      5
Query Match:            90.63%        Indels:          0
DB:                     15            Gaps:            0

US-09-724-409-2 (1-112) x US-10-153-401-17 (1-336)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||::::::|||||||||||||||||||||||||||||||||||||   |||||||||
Db          1 GATGTTTTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||:::|||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              |||||||||||||||||||||||||||||||||||||||||   |||||||||||||||
Db        121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||:::|||   |||   :::||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              |||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

RESULT 13
US-10-153-401-18
; Sequence 18, Application US/10153401
; Publication No. US20030114398A1
;   GENERAL INFORMATION:
;        APPLICANT: Chatterjee, Malaya
;                   Foon, Kenneth A.
```

```
;                 Chatterjee, Sunil K.
;       TITLE OF INVENTION: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE
;                           TREATMENT OF MELANOMA AND SMALL CELL CARCINOMA
;       NUMBER OF SEQUENCES: 66
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: MORRISON & FOERSTER
;            STREET: 755 PAGE MILL ROAD
;            CITY: PALO ALTO
;            STATE: CA
;            COUNTRY: USA
;            ZIP: 94304-1018
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/10/153,401
;            FILING DATE: 27-Aug-2002
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 09/293,533
;            FILING DATE: 1999-04-15
;            APPLICATION NUMBER: US 08/372,676
;            FILING DATE: 1995-01-17
;            APPLICATION NUMBER: US 08/591,196
;            FILING DATE: 1996-01-16
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Catherine M. Polizzi
;            REGISTRATION NUMBER: 40,130
;            REFERENCE/DOCKET NUMBER: 304142000202
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (415) 813-5600
;            TELEFAX: (415) 494-0792
;            TELEX: 706141
;   INFORMATION FOR SEQ ID NO: 18:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 336 base pairs
;            TYPE: nucleic acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;       MOLECULE TYPE: DNA (genomic)
;       SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-10-153-401-18

Alignment Scores:
Pred. No.:              1.02e-64        Length:         336
Score:                  532.00          Matches:        100
Percent Similarity:     95.54%          Conservative:   7
Best Local Similarity:  89.29%          Mismatches:     5
Query Match:            90.63%          Indels:         0
DB:                     15              Gaps:           0

US-09-724-409-2 (1-112) x US-10-153-401-18 (1-336)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              ||||||::::::||||||||||||||||||||||||||||||||||    |||||||||
Db          1 GATGTTTTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              ||||||||||||||||||||||:::|||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||||||||||||||||    ||||||||||||||||
Db        121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||:::|||   |||   :::||||||||||
```

```
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

RESULT 14
US-10-153-401-19
; Sequence 19, Application US/10153401
; Publication No. US20030114398A1
;   GENERAL INFORMATION:
;       APPLICANT: Chatterjee, Malaya
;                  Foon, Kenneth A.
;                  Chatterjee, Sunil K.
;       TITLE OF INVENTION: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE
;                           TREATMENT OF MELANOMA AND SMALL CELL CARCINOMA
;       NUMBER OF SEQUENCES: 66
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: MORRISON & FOERSTER
;            STREET: 755 PAGE MILL ROAD
;            CITY: PALO ALTO
;            STATE: CA
;            COUNTRY: USA
;            ZIP: 94304-1018
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/10/153,401
;            FILING DATE: 27-Aug-2002
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US 09/293,533
;            FILING DATE: 1999-04-15
;            APPLICATION NUMBER: US 08/372,676
;            FILING DATE: 1995-01-17
;            APPLICATION NUMBER: US 08/591,196
;            FILING DATE: 1996-01-16
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Catherine M. Polizzi
;            REGISTRATION NUMBER: 40,130
;            REFERENCE/DOCKET NUMBER: 304142000202
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (415) 813-5600
;            TELEFAX: (415) 494-0792
;            TELEX: 706141
;   INFORMATION FOR SEQ ID NO: 19:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 336 base pairs
;            TYPE: nucleic acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;       MOLECULE TYPE: DNA (genomic)
;       SEQUENCE DESCRIPTION: SEQ ID NO: 19:
US-10-153-401-19

Alignment Scores:
Pred. No.:              1.02e-64        Length:         336
Score:                  532.00          Matches:        100
Percent Similarity:     95.54%          Conservative:   7
Best Local Similarity:  89.29%          Mismatches:     5
Query Match:            90.63%          Indels:         0
DB:                     15              Gaps:           0

US-09-724-409-2 (1-112) x US-10-153-401-19 (1-336)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              ||||||::::::||||||||||||||||||||||||||||||||||    |||||||||
Db          1 GATGTTTTGATGACCCAAACTCCACTCTCCCTNCCTGTCAGTCTTGGAGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
```

```
                ||||||||||||||||||||||:::|||||||||||||||||||||:::|||   |||
Db          61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120

Qy          41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
               ||||||||||||||||||||||||||||||||||||||||||   ||||||||||||||||
Db         121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTNATCTACAAAGTTTCCAACCGATTT 180

Qy          61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy          81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
               ||||||||||||||||||||||||||||||||:::|||   |||   :::|||||||||
Db         241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300

Qy         101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
               ||||||||||||||||||||||||||||||:::
Db         301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336

RESULT 15
US-10-153-401-25
; Sequence 25, Application US/10153401
; Publication No. US20030114398A1
;   GENERAL INFORMATION:
;        APPLICANT: Chatterjee, Malaya
;                   Foon, Kenneth A.
;                   Chatterjee, Sunil K.
;        TITLE OF INVENTION: MONOCLONAL ANTIBODY 1A7 AND USE FOR THE
;                            TREATMENT OF MELANOMA AND SMALL CELL CARCINOMA
;        NUMBER OF SEQUENCES: 66
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: MORRISON & FOERSTER
;             STREET: 755 PAGE MILL ROAD
;             CITY: PALO ALTO
;             STATE: CA
;             COUNTRY: USA
;             ZIP: 94304-1018
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.30
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/153,401
;             FILING DATE: 27-Aug-2002
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US 09/293,533
;             FILING DATE: 1999-04-15
;             APPLICATION NUMBER: US 08/372,676
;             FILING DATE: 1995-01-17
;             APPLICATION NUMBER: US 08/591,196
;             FILING DATE: 1996-01-16
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Catherine M. Polizzi
;             REGISTRATION NUMBER: 40,130
;             REFERENCE/DOCKET NUMBER: 304142000202
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (415) 813-5600
;             TELEFAX: (415) 494-0792
;             TELEX: 706141
;   INFORMATION FOR SEQ ID NO: 25:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 336 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;        MOLECULE TYPE: DNA (genomic)
;        SEQUENCE DESCRIPTION: SEQ ID NO: 25:
US-10-153-401-25

Alignment Scores:
Pred. No.:              1.02e-64        Length:         336
Score:                  532.00          Matches:        100
Percent Similarity:     95.54%          Conservative:   7
Best Local Similarity:  89.29%          Mismatches:     5
Query Match:            90.63%          Indels:         0
DB:                     15              Gaps:           0

US-09-724-409-2 (1-112) x US-10-153-401-25 (1-336)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              ||||||::::::|||||||||||||||||||||||||||||||||   |||||||||
Db          1 GATGTTTTAATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              ||||||||||||||||||||||:::|||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCATTGTACATAGTAATGGAAACACCTATTTAGAATGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||||||||||||||||||   ||||||||||||||||
Db        121 TACCTGCAGAAACCAGGCCAGTCTCCAAAGCTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||:::|||   |||   :::|||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTACTGCTTTCAAGGTTCACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTGGAAATCAAA 336


Search completed: May 13, 2004, 09:44:32
Job time : 340.478 secs
```

GenCore version 5.1.6

OM protein - nucleic search, using frame_plus_p2n model

Run on: May 13, 2004, 02:58:22 ; Search time 58.4779 Seconds
(without alignments)
1062.872 Million cell updates/sec

Title: US-09-724-409-2
Perfect score: 587
Sequence: 1 DVVVTQTPLSLPVSLGAQAS.....CSQTTHVPWTFGGGTKLEIQ 112

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+_p2n.model -DEV=xlh
-Q=/cgn2_1/USPTO_spool/US09724409/runat_12052004_081343_2704/app_query.fasta_1.526
-DB=Issued_Patents_NA -QFMT=fastap -SUFFIX=p2n.rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09724409_@CGN_1_1_93_@runat_12052004_081343_2704 -NCPU=6 -ICPU=3
-NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	550	93.7	725	2	US-08-224-591-11	Sequence 11, Appl
2	550	93.7	725	2	US-08-392-338A-20	Sequence 20, Appl
3	550	93.7	725	2	US-08-926-789-11	Sequence 11, Appl
4	550	93.7	725	3	US-09-166-750-20	Sequence 20, Appl
5	550	93.7	725	3	US-09-166-093-20	Sequence 20, Appl
6	550	93.7	725	3	US-09-172-019-20	Sequence 20, Appl
7	550	93.7	725	3	US-09-166-094-20	Sequence 20, Appl
8	550	93.7	725	4	US-09-443-213-20	Sequence 20, Appl
9	550	93.7	725	5	PCT-US93-11138-11	Sequence 11, Appl
10	550	93.7	731	2	US-08-392-338A-10	Sequence 10, Appl
11	550	93.7	731	3	US-09-166-750-10	Sequence 10, Appl
12	550	93.7	731	3	US-09-166-093-10	Sequence 10, Appl
13	550	93.7	731	3	US-09-172-019-10	Sequence 10, Appl
14	550	93.7	731	3	US-09-166-094-10	Sequence 10, Appl
15	550	93.7	731	4	US-09-443-213-10	Sequence 10, Appl
16	550	93.7	761	2	US-08-392-338A-14	Sequence 14, Appl
17	550	93.7	761	3	US-09-166-750-14	Sequence 14, Appl
18	550	93.7	761	3	US-09-166-093-14	Sequence 14, Appl
19	550	93.7	761	3	US-09-172-019-14	Sequence 14, Appl
20	550	93.7	761	3	US-09-166-094-14	Sequence 14, Appl
21	550	93.7	761	4	US-09-443-213-14	Sequence 14, Appl
22	550	93.7	770	2	US-08-392-338A-16	Sequence 16, Appl
23	550	93.7	770	3	US-09-166-750-16	Sequence 16, Appl
24	550	93.7	770	3	US-09-166-093-16	Sequence 16, Appl
25	550	93.7	770	3	US-09-172-019-16	Sequence 16, Appl
26	550	93.7	770	3	US-09-166-094-16	Sequence 16, Appl
27	550	93.7	770	4	US-09-443-213-16	Sequence 16, Appl
28	550	93.7	1172	4	US-09-140-084-21	Sequence 21, Appl
29	550	93.7	1172	4	US-09-724-297-20	Sequence 20, Appl
30	546	93.0	424	3	US-08-589-939-8	Sequence 8, Appli
31	538	91.7	2010	3	US-09-070-637-19	Sequence 19, Appl
32	537	91.5	336	2	US-08-606-293-3	Sequence 3, Appli
33	537	91.5	384	1	US-08-482-882-44	Sequence 44, Appl
34	537	91.5	384	1	US-08-483-389-44	Sequence 44, Appl
35	537	91.5	384	2	US-08-487-113D-44	Sequence 44, Appl
36	537	91.5	384	2	US-08-473-503-44	Sequence 44, Appl
37	537	91.5	384	2	US-08-483-932-44	Sequence 44, Appl
38	537	91.5	384	2	US-08-720-420A-44	Sequence 44, Appl
39	537	91.5	384	3	US-08-714-017-44	Sequence 44, Appl
40	537	91.5	384	3	US-08-475-680-44	Sequence 44, Appl
41	535	91.1	336	2	US-08-752-844-22	Sequence 22, Appl
42	535	91.1	336	2	US-08-591-196-22	Sequence 22, Appl
43	535	91.1	336	4	US-09-293-533-22	Sequence 22, Appl
44	534	91.0	336	2	US-08-752-844-26	Sequence 26, Appl
45	534	91.0	336	2	US-08-591-196-26	Sequence 26, Appl

ALIGNMENTS

RESULT 1
US-08-224-591-11
; Sequence 11, Application US/08224591
; Patent No. 5856456
; GENERAL INFORMATION:
; APPLICANT: Whitlow, Marc
; APPLICANT: Filpula, David
; TITLE OF INVENTION: Linker For Linked Fusion Polypeptides
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/224,591
; FILING DATE: Herewith
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/002,845
; FILING DATE: 15-JAN-1993
; APPLICATION NUMBER: US 07/980,529
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldstein, Jorge A.
; REGISTRATION NUMBER: 29,021
; REFERENCE/DOCKET NUMBER: 0977.1920002/JAG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600

```
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  725 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  join(1..714)
US-08-224-591-11

Alignment Scores:
Pred. No.:              1.91e-60        Length:         725
Score:                  550.00          Matches:        104
Percent Similarity:     97.32%          Conservative:   5
Best Local Similarity:  92.86%          Mismatches:     3
Query Match:            93.70%          Indels:         0
DB:                     2               Gaps:           0

US-09-724-409-2 (1-112) x US-08-224-591-11 (1-725)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||    |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              ||||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||||:::|||||||||   ||||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||||||:::|||||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 2
US-08-392-338A-20
; Sequence 20, Application US/08392338A
; Patent No. 5869620
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/392,338A
;      FILING DATE:  22-FEB-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.0030007
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  725 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..714
US-08-392-338A-20

Alignment Scores:
Pred. No.:              1.91e-60        Length:         725
Score:                  550.00          Matches:        104
Percent Similarity:     97.32%          Conservative:   5
Best Local Similarity:  92.86%          Mismatches:     3
Query Match:            93.70%          Indels:         0
DB:                     2               Gaps:           0

US-09-724-409-2 (1-112) x US-08-392-338A-20 (1-725)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||    |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              ||||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||||:::|||||||||   ||||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||||||:::|||||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 3
US-08-926-789-11
; Sequence 11, Application US/08926789
; Patent No. 5990275
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Filpula, David
;    TITLE OF INVENTION:  Linker For Linked Fusion Polypeptides
;    NUMBER OF SEQUENCES:  25
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox
;      STREET:  1100 New York Avenue, Suite 600
;      CITY:  Washington
;      STATE:  D.C.
```

```
;       COUNTRY:  U.S.A.
;       ZIP:  20005
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/926,789
;       FILING DATE:
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/224,591
;       FILING DATE:
;       APPLICATION NUMBER:  US 08/002,845
;       FILING DATE:  15-JAN-1993
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/980,529
;       FILING DATE:  20-NOV-1992
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Goldstein, Jorge A.
;       REGISTRATION NUMBER:  29,021
;       REFERENCE/DOCKET NUMBER:  0977.1920002/JAG
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (202) 371-2600
;       TELEFAX:  (202) 371-2540
;   INFORMATION FOR SEQ ID NO:  11:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  725 base pairs
;       TYPE:  nucleic acid
;       STRANDEDNESS:  both
;       TOPOLOGY:  both
;     FEATURE:
;       NAME/KEY:  CDS
;       LOCATION:  join(1..714)
US-08-926-789-11

Alignment Scores:
Pred. No.:                1.91e-60        Length:         725
Score:                    550.00          Matches:        104
Percent Similarity:       97.32%          Conservative:   5
Best Local Similarity:    92.86%          Mismatches:     3
Query Match:              93.70%          Indels:         0
DB:                       2               Gaps:           0

US-09-724-409-2 (1-112) x US-08-926-789-11 (1-725)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::||||||||||||||||||||||||||||||||||   |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||:::|||||||||   ||||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||:::||||||||||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 4
US-09-166-750-20
```

```
; Sequence 20, Application US/09166750
; Patent No. 6025165
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Methods for Producing Multivalent Antigen-Binding
;    TITLE OF INVENTION:  Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/166,750
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000C
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  725 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..714
US-09-166-750-20

Alignment Scores:
Pred. No.:                1.91e-60        Length:         725
Score:                    550.00          Matches:        104
Percent Similarity:       97.32%          Conservative:   5
Best Local Similarity:    92.86%          Mismatches:     3
Query Match:              93.70%          Indels:         0
DB:                       3               Gaps:           0

US-09-724-409-2 (1-112) x US-09-166-750-20 (1-725)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::||||||||||||||||||||||||||||||||||   |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120
```

```
Qy          41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
               ||||||||||||||||||||||||||||:::|||||||||   ||||||||||||||||
Db         121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy          61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy          81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
               ||||||||||||||||||||||||||||||||||||||||:::||||||||||||||||
Db         241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy         101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
               ||||||||||||||||||||||||||||||:::
Db         301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 5
US-09-166-093-20
; Sequence 20, Application US/09166093
; Patent No. 6027725
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/166,093
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000B
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  725 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..714
US-09-166-093-20

Alignment Scores:

Pred. No.:              1.91e-60        Length:         725
Score:                  550.00          Matches:        104
Percent Similarity:     97.32%          Conservative:   5
Best Local Similarity:  92.86%          Mismatches:     3
Query Match:            93.70%          Indels:         0
DB:                     3               Gaps:           0

US-09-724-409-2 (1-112) x US-09-166-093-20 (1-725)

Qy           1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
               |||||||||:::|||||||||||||||||||||||||||||||||   |||||||||
Db           1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy          21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
               ||||||||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db          61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy          41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
               ||||||||||||||||||||||||||||:::|||||||||   ||||||||||||||||
Db         121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy          61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy          81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
               ||||||||||||||||||||||||||||||||||||||||:::||||||||||||||||
Db         241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy         101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
               ||||||||||||||||||||||||||||||:::
Db         301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 6
US-09-172-019-20
; Sequence 20, Application US/09172019
; Patent No. 6103889
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    TITLE OF INVENTION:  Nucleic Acid Molecules Encoding Single-Chain
;    TITLE OF INVENTION:  Antigen-Binding Proteins (As Amended)
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/172,019
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
```

```
;      REFERENCE/DOCKET NUMBER:  0977.003000D
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  725 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..714
US-09-172-019-20

Alignment Scores:
Pred. No.:                1.91e-60        Length:         725
Score:                    550.00          Matches:        104
Percent Similarity:       97.32%          Conservative:   5
Best Local Similarity:    92.86%          Mismatches:     3
Query Match:              93.70%          Indels:         0
DB:                       3               Gaps:           0

US-09-724-409-2 (1-112) x US-09-172-019-20 (1-725)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||   |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||:::|||||||||   ||||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||||:::|||||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 7
US-09-166-094-20
; Sequence 20, Application US/09166094
; Patent No. 6121424
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/166,094
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  725 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..714
US-09-166-094-20

Alignment Scores:
Pred. No.:                1.91e-60        Length:         725
Score:                    550.00          Matches:        104
Percent Similarity:       97.32%          Conservative:   5
Best Local Similarity:    92.86%          Mismatches:     3
Query Match:              93.70%          Indels:         0
DB:                       3               Gaps:           0

US-09-724-409-2 (1-112) x US-09-166-094-20 (1-725)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||   |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||:::|||||||||   ||||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||||:::|||||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 8
US-09-443-213-20
; Sequence 20, Application US/09443213
; Patent No. 6515110
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
```

```
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/443,213
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 09/166,094
;      FILING DATE:  05-OCT-1998
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000E
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  725 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..714
US-09-443-213-20

Alignment Scores:
Pred. No.:              1.91e-60      Length:         725
Score:                  550.00        Matches:        104
Percent Similarity:     97.32%        Conservative:   5
Best Local Similarity:  92.86%        Mismatches:     3
Query Match:            93.70%        Indels:         0
DB:                     4             Gaps:           0

US-09-724-409-2 (1-112) x US-09-443-213-20 (1-725)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||    |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              |||||||||||||||||||||||||||:::|||||||||   ||||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||||||:::||||||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              |||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 9
PCT-US93-11138-11
; Sequence 11, Application PC/TUS9311138
;  GENERAL INFORMATION:
;    APPLICANT:  Enzon, Inc.
;    TITLE OF INVENTION:  Linker For Linked Fusion Polypeptides
;    NUMBER OF SEQUENCES:  14
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox
;      STREET:  1100 New York Avenue, N.W.
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005-3934
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US93/11138
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/980,529
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/002,845
;      FILING DATE:  15-JAN-1993
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.2006604/JAG
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  725 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..723
PCT-US93-11138-11

Alignment Scores:
Pred. No.:              1.91e-60      Length:         725
Score:                  550.00        Matches:        104
Percent Similarity:     97.32%        Conservative:   5
Best Local Similarity:  92.86%        Mismatches:     3
Query Match:            93.70%        Indels:         0
DB:                     5             Gaps:           0

US-09-724-409-2 (1-112) x PCT-US93-11138-11 (1-725)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||    |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60
```

```
Qy          21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
               ||||||||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db          61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy          41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
               ||||||||||||||||||||||||||||||:::|||||||||   ||||||||||||||
Db         121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy          61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy          81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
               ||||||||||||||||||||||||||||||||||||||||||||:::||||||||||||
Db         241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy         101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
               ||||||||||||||||||||||||||||||:::
Db         301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 10
US-08-392-338A-10
; Sequence 10, Application US/08392338A
; Patent No. 5869620
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/392,338A
;      FILING DATE:  22-FEB-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.0030007
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  731 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..720
US-08-392-338A-10

Alignment Scores:
Pred. No.:                1.93e-60        Length:          731
Score:                    550.00          Matches:         104
Percent Similarity:       97.32%          Conservative:    5
Best Local Similarity:    92.86%          Mismatches:      3
Query Match:              93.70%          Indels:          0
DB:                       2               Gaps:            0

US-09-724-409-2 (1-112) x US-08-392-338A-10 (1-731)

Qy           1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
               |||||||||:::|||||||||||||||||||||||||||||||||||   |||||||||
Db           1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy          21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
               ||||||||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db          61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy          41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
               ||||||||||||||||||||||||||||||:::|||||||||   ||||||||||||||
Db         121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy          61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy          81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
               ||||||||||||||||||||||||||||||||||||||||||||:::||||||||||||
Db         241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy         101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
               ||||||||||||||||||||||||||||||:::
Db         301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 11
US-09-166-750-10
; Sequence 10, Application US/09166750
; Patent No. 6025165
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Methods for Producing Multivalent Antigen-Binding
;    TITLE OF INVENTION:  Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/166,750
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
```

```
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000C
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  731 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..720
US-09-166-750-10

Alignment Scores:
Pred. No.:              1.93e-60        Length:         731
Score:                  550.00          Matches:        104
Percent Similarity:     97.32%          Conservative:   5
Best Local Similarity:  92.86%          Mismatches:     3
Query Match:            93.70%          Indels:         0
DB:                     3               Gaps:           0

US-09-724-409-2 (1-112) x US-09-166-750-10 (1-731)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||    |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||:::|||||||   ||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||:::|||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 12
US-09-166-093-10
; Sequence 10, Application US/09166093
; Patent No. 6027725
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/166,093
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000B
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  731 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..720
US-09-166-093-10

Alignment Scores:
Pred. No.:              1.93e-60        Length:         731
Score:                  550.00          Matches:        104
Percent Similarity:     97.32%          Conservative:   5
Best Local Similarity:  92.86%          Mismatches:     3
Query Match:            93.70%          Indels:         0
DB:                     3               Gaps:           0

US-09-724-409-2 (1-112) x US-09-166-093-10 (1-731)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||    |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              |||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||:::|||||||   ||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||:::|||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 13
US-09-172-019-10
; Sequence 10, Application US/09172019
; Patent No. 6103889
```

```
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    TITLE OF INVENTION:  Nucleic Acid Molecules Encoding Single-Chain
;    TITLE OF INVENTION:  Antigen-Binding Proteins (As Amended)
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/172,019
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000D
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  731 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..720
US-09-172-019-10

Alignment Scores:
Pred. No.:              1.93e-60        Length:         731
Score:                  550.00          Matches:        104
Percent Similarity:     97.32%          Conservative:   5
Best Local Similarity:  92.86%          Mismatches:     3
Query Match:            93.70%          Indels:         0
DB:                     3               Gaps:           0

US-09-724-409-2 (1-112) x US-09-172-019-10 (1-731)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              |||||||||:::|||||||||||||||||||||||||||||||||||    |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              ||||||||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||:::|||||||||   ||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||||||:::||||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 14
US-09-166-094-10
; Sequence 10, Application US/09166094
; Patent No. 6121424
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/166,094
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  731 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..720
US-09-166-094-10

Alignment Scores:
Pred. No.:              1.93e-60        Length:         731
Score:                  550.00          Matches:        104
Percent Similarity:     97.32%          Conservative:   5
Best Local Similarity:  92.86%          Mismatches:     3
```

```
Query Match:            93.70%      Indels:        0
DB:                     3           Gaps:          0

US-09-724-409-2 (1-112) x US-09-166-094-10 (1-731)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              ||||||||:::||||||||||||||||||||||||||||||||||||    |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              ||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||:::|||||||||   ||||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||:::||||||||||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336

RESULT 15
US-09-443-213-10
; Sequence 10, Application US/09443213
; Patent No. 6515110
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/443,213
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 09/166,094
;      FILING DATE:  05-OCT-1998
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000E
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  10:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  731 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  both
;      TOPOLOGY:  both
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  1..720
US-09-443-213-10

Alignment Scores:
Pred. No.:              1.93e-60    Length:        731
Score:                  550.00      Matches:       104
Percent Similarity:     97.32%      Conservative:  5
Best Local Similarity:  92.86%      Mismatches:    3
Query Match:            93.70%      Indels:        0
DB:                     4           Gaps:          0

US-09-724-409-2 (1-112) x US-09-443-213-10 (1-731)

Qy          1 AspValValValThrGlnThrProLeuSerLeuProValSerLeuGlyAlaGlnAlaSer 20
              ||||||||:::||||||||||||||||||||||||||||||||||||    |||||||||
Db          1 GACGTCGTTATGACTCAGACACCACTATCACTTCCTGTTAGTCTAGGTGATCAAGCCTCC 60

Qy         21 IleSerCysArgSerSerGlnSerLeuValHisSerAsnGlyAsnThrPheLeuHisTrp 40
              ||||||||||||||||||||||||||||||||||||||:::|||   |||
Db         61 ATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACCTATTTACGTTGG 120

Qy         41 TyrLeuGlnLysProGlyGlnSerProLysLeuLeuIleTyrThrValSerAsnArgPhe 60
              ||||||||||||||||||||||||||:::|||||||||   ||||||||||||||||
Db        121 TACCTGCAGAAGCCAGGCCAGTCTCCAAAGGTCCTGATCTACAAAGTTTCCAACCGATTT 180

Qy         61 SerGlyValProAspArgPheSerGlySerGlySerGlyThrAspPheThrLeuLysIle 80
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 TCTGGGGTCCCAGACAGGTTCAGTGGCAGTGGATCAGGGACAGATTTCACACTCAAGATC 240

Qy         81 SerArgValGluAlaGluAspLeuGlyValTyrPheCysSerGlnThrThrHisValPro 100
              ||||||||||||||||||||||||||||||||||||||:::||||||||||||||||||
Db        241 AGCAGAGTGGAGGCTGAGGATCTGGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCCG 300

Qy        101 TrpThrPheGlyGlyGlyThrLysLeuGluIleGln 112
              ||||||||||||||||||||||||||||||:::
Db        301 TGGACGTTCGGTGGAGGCACCAAGCTTGAAATCAAA 336


Search completed: May 13, 2004, 07:58:48
Job time : 64.4779 secs
```

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: May 12, 2004, 08:11:16 ; Search time 16.1416 Seconds
(without alignments)
364.608 Million cell updates/sec

Title: US-09-724-409-7
Perfect score: 610
Sequence: 1 EVQLQQSGPDLVKPGASVKI.....YCAREGIYWWGHGTTLTVSS 114

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	496	81.3	135	1	US-08-137-117D-27	Sequence 27, Appl
2	496	81.3	135	2	US-08-436-717-27	Sequence 27, Appl
3	488	80.0	137	2	US-08-116-778E-3	Sequence 3, Appli
4	488	80.0	137	2	US-08-438-562-3	Sequence 3, Appli
5	488	80.0	137	2	US-08-483-528B-93	Sequence 93, Appl
6	487.5	79.9	301	2	US-08-656-906-25	Sequence 25, Appl
7	487.5	79.9	301	3	US-09-217-847-25	Sequence 25, Appl
8	487	79.8	118	4	US-09-647-468-139	Sequence 139, App
9	487	79.8	118	4	US-09-647-468-140	Sequence 140, App
10	487	79.8	137	4	US-09-647-468-153	Sequence 153, App
11	487	79.8	137	4	US-09-647-468-154	Sequence 154, App
12	485	79.5	128	1	US-08-202-047-21	Sequence 21, Appl
13	485	79.5	128	3	US-08-964-690-21	Sequence 21, Appl
14	483.5	79.3	115	3	US-08-838-682-8	Sequence 8, Appli
15	483.5	79.3	115	3	US-08-895-914-8	Sequence 8, Appli
16	483.5	79.3	115	3	US-09-357-710A-8	Sequence 8, Appli
17	483.5	79.3	115	4	US-09-357-707-8	Sequence 8, Appli
18	483.5	79.3	130	3	US-08-838-682-4	Sequence 4, Appli
19	483.5	79.3	130	3	US-08-895-914-4	Sequence 4, Appli
20	483.5	79.3	130	3	US-09-357-710A-4	Sequence 4, Appli
21	483.5	79.3	130	4	US-09-357-707-4	Sequence 4, Appli
22	482.5	79.1	243	1	US-08-230-843-4	Sequence 4, Appli
23	482.5	79.1	243	2	US-08-636-936-4	Sequence 4, Appli
24	480	78.7	139	2	US-08-116-778E-1	Sequence 1, Appli
25	480	78.7	139	2	US-08-438-562-1	Sequence 1, Appli
26	480	78.7	139	2	US-08-483-528B-91	Sequence 91, Appl
27	479	78.5	233	3	US-08-444-644-33	Sequence 33, Appl
28	479	78.5	233	4	US-08-232-246A-33	Sequence 33, Appl
29	479	78.5	235	3	US-08-444-644-19	Sequence 19, Appl
30	479	78.5	235	3	US-08-444-644-28	Sequence 28, Appl
31	479	78.5	235	3	US-08-444-644-42	Sequence 42, Appl
32	479	78.5	235	4	US-08-232-246A-19	Sequence 19, Appl
33	479	78.5	235	4	US-08-232-246A-28	Sequence 28, Appl
34	479	78.5	235	4	US-08-232-246A-42	Sequence 42, Appl
35	478	78.4	118	1	US-08-491-845-6	Sequence 6, Appli
36	477	78.2	116	1	US-07-634-278-56	Sequence 56, Appl
37	477	78.2	116	1	US-08-477-728-56	Sequence 56, Appl
38	477	78.2	116	1	US-08-474-040-56	Sequence 56, Appl
39	477	78.2	116	1	US-08-487-200-56	Sequence 56, Appl
40	477	78.2	116	3	US-08-484-537-56	Sequence 56, Appl
41	477	78.2	135	1	US-07-634-278-69	Sequence 69, Appl
42	477	78.2	135	1	US-08-477-728-69	Sequence 69, Appl
43	477	78.2	135	1	US-08-474-040-69	Sequence 69, Appl
44	477	78.2	135	1	US-08-487-200-69	Sequence 69, Appl
45	477	78.2	135	3	US-08-484-537-69	Sequence 69, Appl

ALIGNMENTS

```
RESULT 1
US-08-137-117D-27
; Sequence 27, Application US/08137117D
; Patent No. 5795965
;  GENERAL INFORMATION:
;    APPLICANT:  TSUCHIYA, Masayuki
;    APPLICANT:  SATO, Koh
;    APPLICANT:  BENDIG, Mary
;    APPLICANT:  JONES, Steven
;    APPLICANT:  SALDANHA, Jose
;    TITLE OF INVENTION:  RESHAPED HUMAN ANTIBODY TO HUMAN
;    TITLE OF INVENTION:  INTERLEUKIN-6 RECEPTOR
;    NUMBER OF SEQUENCES:  158
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley & Lardner
;      STREET:  3000 K Street, N.W., Suite 500
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20007-5109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/137,117D
;      FILING DATE:  20-DEC-1993
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  WO PCT/JP92/00544
;      FILING DATE:  24-APR-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 4-32084
;      FILING DATE:  19-FEB-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 3-95476
;      FILING DATE:  25-APR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  WEGNER, Harold C.
;      REGISTRATION NUMBER:  25,258
;      REFERENCE/DOCKET NUMBER:  53466/126/AAOK
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202)672-5300
;      TELEFAX:  (202)672-5399
;      TELEX:  904136
;  INFORMATION FOR SEQ ID NO:  27:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  135 amino acids
;      TYPE:  amino acid
```

```
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-137-117D-27

  Query Match             81.3%;  Score 496;  DB 1;  Length 135;
  Best Local Similarity   81.9%;  Pred. No. 6e-41;
  Matches   95;  Conservative    7;  Mismatches   12;  Indels    2;  Gaps    1;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |:|||||||:|:||||||||||||||||| |||||||||||||||| : | ||||||
Db         20 EIQLQQSGPELMKPGASVKISCKASGYSFTSYYIHWVKQSHGKSLEWIGYIDPFNGGTSY 79

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAREG--IYWWGHGTTLTVSS 114
              |||||||| |||||||||||| | ||||||||||||| |    :|| || :|||:
Db         80 NQKFKGKATLTVDKSSSTAYMHLSSLTSEDSAVYYCARGGNRFAYWGQGTLVTVSA 135


RESULT 2
US-08-436-717-27
; Sequence 27, Application US/08436717
; Patent No. 5817790
;  GENERAL INFORMATION:
;    APPLICANT:  TSUCHIYA, Masayuki
;    APPLICANT:  SATO, Koh
;    APPLICANT:  BENDIG, Mary
;    APPLICANT:  JONES, Steven
;    APPLICANT:  SALDANHA, Jose
;    TITLE OF INVENTION:  RESHAPED HUMAN ANTIBODY TO HUMAN
;    TITLE OF INVENTION:  INTERLEUKIN-6 RECEPTOR
;    NUMBER OF SEQUENCES:  158
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley & Lardner
;      STREET:  3000 K Street, N.W., Suite 500
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  USA
;      ZIP:  20007-5109
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/436,717
;      FILING DATE:
;      CLASSIFICATION:  536
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/137,117
;      FILING DATE:  20-DEC-1993
;      APPLICATION NUMBER:  WO PCT/JP92/00544
;      FILING DATE:  24-APR-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 4-32084
;      FILING DATE:  19-FEB-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  JP 3-95476
;      FILING DATE:  25-APR-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  WEGNER, Harold C.
;      REGISTRATION NUMBER:  25,258
;      REFERENCE/DOCKET NUMBER:  53466/126/AAOK
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202)672-5300
;      TELEFAX:  (202)672-5399
;      TELEX:  904136
;  INFORMATION FOR SEQ ID NO:  27:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  135 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-436-717-27

  Query Match             81.3%;  Score 496;  DB 2;  Length 135;
  Best Local Similarity   81.9%;  Pred. No. 6e-41;
  Matches   95;  Conservative    7;  Mismatches   12;  Indels    2;  Gaps    1;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |:|||||||:|:||||||||||||||||| |||||||||||||||| : | ||||||
Db         20 EIQLQQSGPELMKPGASVKISCKASGYSFTSYYIHWVKQSHGKSLEWIGYIDPFNGGTSY 79

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAREG--IYWWGHGTTLTVSS 114
              |||||||| |||||||||||| | ||||||||||||| |    :|| || :|||:
Db         80 NQKFKGKATLTVDKSSSTAYMHLSSLTSEDSAVYYCARGGNRFAYWGQGTLVTVSA 135


RESULT 3
US-08-116-778E-3
; Sequence 3, Application US/08116778E
; Patent No. 5830470
;  GENERAL INFORMATION:
;    APPLICANT:  NAKAMURA, KAZUYASU
;    APPLICANT:  KOIKE, MASAMICHI
;    APPLICANT:  SHITARA, KENYA
;    APPLICANT:  HANAI, NOBUO
;    APPLICANT:  KUWANA, YOSHIHISA
;    APPLICANT:  HASEGAWA, MAMORU
;    TITLE OF INVENTION:  HUMANIZED ANTIBODIES
;    NUMBER OF SEQUENCES:  49
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  NIXON & VANDERHYE P.C.
;      STREET:  1100 NORTH GLEBE ROAD
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  U.S.A.
;      ZIP:  22201-4714
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/116,778E
;      FILING DATE:  07-SEP-93
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  WILSON, MARY J.
;      REGISTRATION NUMBER:  32,955
;      REFERENCE/DOCKET NUMBER:  249-59
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)816-4000
;      TELEFAX:  (703)816-4100
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  137 amino acids
;      TYPE:  amino acids
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  sig_peptide
;      LOCATION:  -19..-1
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;      IDENTIFICATION METHOD:  CONSENSUS
;    FEATURE:
;      NAME/KEY:  domain
;      LOCATION:  31..35
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;      IDENTIFICATION METHOD:  CONSENSUS
;      OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 1"
;    FEATURE:
;      NAME/KEY:  domain
;      LOCATION:  55..66
;      IDENTIFICATION METHOD:  BY SIMILARITY
;      IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
```

```
;       IDENTIFICATION METHOD:  CONSENSUS
;       OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 2"
;     FEATURE:
;       NAME/KEY:  domain
;       LOCATION:  99..107
;       IDENTIFICATION METHOD:  BY SIMILARITY
;       IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISEHD
;       IDENTIFICATION METHOD:  CONSENSUS
;       OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 3"
US-08-116-778E-3

  Query Match             80.0%;  Score 488;  DB 2;  Length 137;
  Best Local Similarity   79.7%;  Pred. No. 3.7e-40;
  Matches   94;  Conservative    7;  Mismatches   13;  Indels    4;  Gaps    1;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |||||||||:|||||||||||||||||:|| | : |||||||||||||| : ||||||
Db         20 EVQLQQSGPELVKPGASVKISCKASGYTFTDYNMDWVKQSHGKSLEWIGYIYPNNGGTGY 79

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAREGIYW----WGHGTTLTVSS 114
              ||||| || |||||||||||||| |||||||||||||| | |:    || || :|||:
Db         80 NQKFKSKATLTVDKSSSTAYMELHSLTSEDSAVYYCARAGRYYYAWDWGQGTLVTVSA 137


RESULT 4
US-08-438-562-3
; Sequence 3, Application US/08438562
; Patent No. 5874255
;  GENERAL INFORMATION:
;    APPLICANT:  NAKAMURA, KAZUYASU
;    APPLICANT:  KOIKE, MASAMICHI
;    APPLICANT:  SHITARA, KENYA
;    APPLICANT:  HANAI, NOBUO
;    APPLICANT:  KUWANA, YOSHIHISA
;    APPLICANT:  HASEGAWA, MAMORU
;    TITLE OF INVENTION:  HUMANIZED ANTIBODIES
;    NUMBER OF SEQUENCES:  49
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  NIXON & VANDERHYE P.C.
;      STREET:  1100 NORTH GLEBE ROAD
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  U.S.A.
;      ZIP:  22201-4714
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/438,562
;      FILING DATE:  10-MAY-95
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/116,778
;      FILING DATE:  07-SEP-93
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  WILSON, MARY J.
;      REGISTRATION NUMBER:  32,955
;      REFERENCE/DOCKET NUMBER:  249-76
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)816-4000
;      TELEFAX:  (703)816-4100
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  137 amino acids
;      TYPE:  amino acids
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  sig_peptide
;      LOCATION:  -19..-1
```

```
;       IDENTIFICATION METHOD:  BY SIMILARITY
;       IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;       IDENTIFICATION METHOD:  CONSENSUS
;     FEATURE:
;       NAME/KEY:  domain
;       LOCATION:  31..35
;       IDENTIFICATION METHOD:  BY SIMILARITY
;       IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;       IDENTIFICATION METHOD:  CONSENSUS
;       OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 1"
;     FEATURE:
;       NAME/KEY:  domain
;       LOCATION:  55..66
;       IDENTIFICATION METHOD:  BY SIMILARITY
;       IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;       IDENTIFICATION METHOD:  CONSENSUS
;       OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 2"
;     FEATURE:
;       NAME/KEY:  domain
;       LOCATION:  99..107
;       IDENTIFICATION METHOD:  BY SIMILARITY
;       IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISEHD
;       IDENTIFICATION METHOD:  CONSENSUS
;       OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 3"
US-08-438-562-3

  Query Match             80.0%;  Score 488;  DB 2;  Length 137;
  Best Local Similarity   79.7%;  Pred. No. 3.7e-40;
  Matches   94;  Conservative    7;  Mismatches   13;  Indels    4;  Gaps    1;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |||||||||:|||||||||||||||||:|| | : |||||||||||||| : ||||||
Db         20 EVQLQQSGPELVKPGASVKISCKASGYTFTDYNMDWVKQSHGKSLEWIGYIYPNNGGTGY 79

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAREGIYW----WGHGTTLTVSS 114
              ||||| || |||||||||||||| |||||||||||||| | |:    || || :|||:
Db         80 NQKFKSKATLTVDKSSSTAYMELHSLTSEDSAVYYCARAGRYYYAWDWGQGTLVTVSA 137


RESULT 5
US-08-483-528B-93
; Sequence 93, Application US/08483528B
; Patent No. 5939532
;  GENERAL INFORMATION:
;    APPLICANT:  NAKAMURA, KAZUYASU
;    APPLICANT:  KOIKE, MASAMICHI
;    APPLICANT:  SHITARA, KENYA
;    APPLICANT:  HANAI, NOBUO
;    APPLICANT:  KUWANA, YOSHIHISA
;    APPLICANT:  HASEGAWA, MAMORU
;    TITLE OF INVENTION:  HUMANIZED ANTIBODIES
;    NUMBER OF SEQUENCES:  103
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  NIXON & VANDERHYE P.C.
;      STREET:  1100 NORTH GLEBE ROAD
;      CITY:  ARLINGTON
;      STATE:  VIRGINIA
;      COUNTRY:  U.S.A.
;      ZIP:  22201-4714
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/483,528B
;      FILING DATE:  07-JUN-95
;      CLASSIFICATION:  536
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)816-4000
;      TELEFAX:  (703)816-4100
;  INFORMATION FOR SEQ ID NO:  93:
;    SEQUENCE CHARACTERISTICS:
```

```
;       LENGTH:  137 amino acids
;       TYPE:  amino acids
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
;     FEATURE:
;       NAME/KEY:  sig_peptide
;       LOCATION:  -19..-1
;       IDENTIFICATION METHOD:
;       IDENTIFICATION METHOD:  BY SIMILARITY WITH KNOWN SEQUENCE OR TO AN
;       IDENTIFICATION METHOD:  ESTABLISHED CONSENSUS
;     FEATURE:
;       NAME/KEY:  domain
;       LOCATION:  31..35
;       IDENTIFICATION METHOD:  BY SIMILARITY
;       IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;       IDENTIFICATION METHOD:  CONSENSUS
;       OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 1"
;     FEATURE:
;       NAME/KEY:  domain
;       LOCATION:  55..66
;       IDENTIFICATION METHOD:  BY SIMILARITY
;       IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISHED
;       IDENTIFICATION METHOD:  CONSENSUS
;       OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 2"
;     FEATURE:
;       NAME/KEY:  domain
;       LOCATION:  99..107
;       IDENTIFICATION METHOD:  BY SIMILARITY
;       IDENTIFICATION METHOD:  WITH KNOWN SEQUENCE OR TO AN ESTABLISEHD
;       IDENTIFICATION METHOD:  CONSENSUS
;       OTHER INFORMATION:  /product= "HYPERVARIABLE REGION 3"
US-08-483-528B-93

  Query Match             80.0%;  Score 488;  DB 2;  Length 137;
  Best Local Similarity   79.7%;  Pred. No. 3.7e-40;
  Matches   94;  Conservative    7;  Mismatches   13;  Indels    4;  Gaps    1;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |||||||||:|||||||||||||||||:|| | : |||||||||||||| : |||||| |
Db         20 EVQLQQSGPELVKPGASVKISCKASGYTFTDYNMDWVKQSHGKSLEWIGYIYPNNGGTGY 79

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAREGIYW----WGHGTTLTVSS 114
              ||||| || |||||||||||||| |||||||||||||| | |:    || || :|||:
Db         80 NQKFKSKATLTVDKSSSTAYMELHSLTSEDSAVYYCARAGRYYYAWDWGQGTLVTVSA 137


RESULT 6
US-08-656-906-25
; Sequence 25, Application US/08656906
; Patent No. 5972901
;  GENERAL INFORMATION:
;    APPLICANT:  Ferkol Jr., Thomas W.
;    APPLICANT:  Davis, Pamela B.
;    APPLICANT:  Ziady, Assem-Galal
;    TITLE OF INVENTION:  Serpin Enzyme Complex Receptor -
;    TITLE OF INVENTION:  Mediated Gene Transfer
;    NUMBER OF SEQUENCES:  31
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Medlen & Carroll
;      STREET:  220 Montgomery Street, Suite 2200
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  United States Of America
;      ZIP:  94104
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/656,906
;      FILING DATE:  03-JUN-1996
;      CLASSIFICATION:  514
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/
;      FILING DATE:  03-JUN-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  WO WO 95/25809
;      FILING DATE:  23-MAR-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/216,534
;      FILING DATE:  23-MAR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Ingolia, Diane E.
;      REGISTRATION NUMBER:  40,027
;      REFERENCE/DOCKET NUMBER:  CASE-02280
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (415) 705-8410
;      TELEFAX:  (415) 397-8338
;  INFORMATION FOR SEQ ID NO:  25:
;    SEQUENCE CHARACTERISTICS:
;     LENGTH: 301 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-656-906-25

  Query Match             79.9%;  Score 487.5;  DB 2;  Length 301;
  Best Local Similarity   79.3%;  Pred. No. 1e-39;
  Matches   96;  Conservative    5;  Mismatches   13;  Indels    7;  Gaps    1;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |||||||||||||||||||||||| |||:|  | :|||||||||||||| : ||||||||
Db        127 EVQLQQSGPDLVKPGASVKISCKTSGYTFIEYTMHWVKQSHGKSLEWIGGINPNNGGTSY 186

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAREGIY-------WWGHGTTLTVS 113
              |||||||| |||||||:|||||||| |||||||| |||   |       :|| |||||||
Db        187 NQKFKGKATLTVDKSSTTAYMELRGLTSEDSAVYSCARYYRYDVLSAMDYWGQGTTLTVS 246

Qy        114 S 114
              |
Db        247 S 247


RESULT 7
US-09-217-847-25
; Sequence 25, Application US/09217847
; Patent No. 6200801
;  GENERAL INFORMATION:
;    APPLICANT:  Ferkol Jr., Thomas W.
;    APPLICANT:  Davis, Pamela B.
;    APPLICANT:  Ziady, Assem-Galal
;    TITLE OF INVENTION:  Serpin Enzyme Complex Receptor -
;    TITLE OF INVENTION:  Mediated Gene Transfer
;    NUMBER OF SEQUENCES:  31
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Medlen & Carroll
;      STREET:  220 Montgomery Street, Suite 2200
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  United States Of America
;      ZIP:  94104
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/217,847
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/656,906
;      FILING DATE:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  WO WO 95/25809
```

```
;       FILING DATE:  23-MAR-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/216,534
;       FILING DATE:  23-MAR-1994
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Ingolia, Diane E.
;       REGISTRATION NUMBER:  40,027
;       REFERENCE/DOCKET NUMBER:  CASE-02280
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (415) 705-8410
;       TELEFAX:  (415) 397-8338
;   INFORMATION FOR SEQ ID NO:  25:
;     SEQUENCE CHARACTERISTICS:
;      LENGTH: 301 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-09-217-847-25

  Query Match             79.9%;  Score 487.5;  DB 3;  Length 301;
  Best Local Similarity   79.3%;  Pred. No. 1e-39;
  Matches   96;  Conservative    5;  Mismatches   13;  Indels    7;  Gaps    1;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |||||||||||||||||||||||| |||:|  | :|||||||||||||| : ||||||||
Db        127 EVQLQQSGPDLVKPGASVKISCKTSGYTFIEYTMHWVKQSHGKSLEWIGGINPNNGGTSY 186

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAREGIY-------WWGHGTTLTVS 113
              |||||||| |||||||:||||||| |||||||| |||    |        :|| |||||||
Db        187 NQKFKGKATLTVDKSSTTAYMELRGLTSEDSAVYSCARYYRYDVLSAMDYWGQGTTLTVS 246

Qy        114 S 114
              |
Db        247 S 247


RESULT 8
US-09-647-468-139
; Sequence 139, Application US/09647468
; Patent No. 6677436
; GENERAL INFORMATION:
;  APPLICANT: SATO, KOH
;  APPLICANT:  ADACHI, HIDEKI
;  APPLICANT:  YABUTA, NAOHIRO
;  TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
;  TITLE OF INVENTION:  PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
;  FILE REFERENCE: 053466/0289
;  CURRENT APPLICATION NUMBER: US/09/647,468
;  CURRENT FILING DATE:  2000-09-29
;  PRIOR APPLICATION NUMBER: PCT/JP99/01768
;  PRIOR FILING DATE: 1999-04-02
;  PRIOR APPLICATION NUMBER: JP 10-91850
;  PRIOR FILING DATE: 1998-04-03
;  NUMBER OF SEQ ID NOS: 183
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 139
;   LENGTH: 118
;   TYPE: PRT
;   ORGANISM: Mus sp.
;   FEATURE:
;   OTHER INFORMATION: Amino acid sequence of H chain V region of anti-TF
;   OTHER INFORMATION: mouse monoclonal antibody ATR-2
US-09-647-468-139

  Query Match             79.8%;  Score 487;  DB 4;  Length 118;
  Best Local Similarity   80.5%;  Pred. No. 3.9e-40;
  Matches   95;  Conservative    8;  Mismatches   11;  Indels    4;  Gaps    2;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |:|||||||:|||||||||:|||||||||| | ::|||||||||||||| : | |||| |
Db          1 EIQLQQSGPELVKPGASVKVSCKASGYSFTDYNMYWVKQSHGKSLEWIGYIDPYNGGTIY 60

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAR--EGIY--WWGHGTTLTVSS 114
              |||||||| |||||||||:| | |||||||||||||| || |  :|| ||||||||
Db         61 NQKFKGKATLTVDKSSSTAFMHLNSLTSEDSAVYYCARGGEGYYFDYWGQGTTLTVSS 118


RESULT 9
US-09-647-468-140
; Sequence 140, Application US/09647468
; Patent No. 6677436
; GENERAL INFORMATION:
;  APPLICANT: SATO, KOH
;  APPLICANT:  ADACHI, HIDEKI
;  APPLICANT:  YABUTA, NAOHIRO
;  TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
;  TITLE OF INVENTION:  PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
;  FILE REFERENCE: 053466/0289
;  CURRENT APPLICATION NUMBER: US/09/647,468
;  CURRENT FILING DATE:  2000-09-29
;  PRIOR APPLICATION NUMBER: PCT/JP99/01768
;  PRIOR FILING DATE: 1999-04-02
;  PRIOR APPLICATION NUMBER: JP 10-91850
;  PRIOR FILING DATE: 1998-04-03
;  NUMBER OF SEQ ID NOS: 183
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 140
;   LENGTH: 118
;   TYPE: PRT
;   ORGANISM: Mus sp.
;   FEATURE:
;   OTHER INFORMATION: Amino acid sequence of H chain V region of anti-TF
;   OTHER INFORMATION: mouse monoclonal antibody ATR-3
US-09-647-468-140

  Query Match             79.8%;  Score 487;  DB 4;  Length 118;
  Best Local Similarity   80.5%;  Pred. No. 3.9e-40;
  Matches   95;  Conservative    8;  Mismatches   11;  Indels    4;  Gaps    2;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |:|||||||:|||||||||:|||||||||| | ::|||||||||||||| : | |||| |
Db          1 EIQLQQSGPELVKPGASVKVSCKASGYSFTDYNMYWVKQSHGKSLEWIGYIDPYNGGTIY 60

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAR--EGIY--WWGHGTTLTVSS 114
              |||||||| |||||||||:| | |||||||||||||| || |  :|| ||||||||
Db         61 NQKFKGKATLTVDKSSSTAFMHLNSLTSEDSAVYYCARGGEGYYFDYWGQGTTLTVSS 118


RESULT 10
US-09-647-468-153
; Sequence 153, Application US/09647468
; Patent No. 6677436
; GENERAL INFORMATION:
;  APPLICANT: SATO, KOH
;  APPLICANT:  ADACHI, HIDEKI
;  APPLICANT:  YABUTA, NAOHIRO
;  TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
;  TITLE OF INVENTION:  PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
;  FILE REFERENCE: 053466/0289
;  CURRENT APPLICATION NUMBER: US/09/647,468
;  CURRENT FILING DATE:  2000-09-29
;  PRIOR APPLICATION NUMBER: PCT/JP99/01768
;  PRIOR FILING DATE: 1999-04-02
;  PRIOR APPLICATION NUMBER: JP 10-91850
;  PRIOR FILING DATE: 1998-04-03
;  NUMBER OF SEQ ID NOS: 183
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 153
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Mus sp.
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Amino acid
;   OTHER INFORMATION: sequence coding for H chain V region of ant-TF
;   OTHER INFORMATION: mouse monoclonal antibody ATR-2
US-09-647-468-153
```

```
  Query Match             79.8%;  Score 487;  DB 4;  Length 137;
  Best Local Similarity   80.5%;  Pred. No. 4.6e-40;
  Matches   95;  Conservative    8;  Mismatches   11;  Indels    4;  Gaps    2;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |:|||||||:|||||||||:|||||||||| | ::|||||||||||||| : | |||| |
Db         20 EIQLQQSGPELVKPGASVKVSCKASGYSFTDYNMYWVKQSHGKSLEWIGYIDPYNGGTIY 79

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAR--EGIY--WWGHGTTLTVSS 114
              |||||||| |||||||||:| | |||||||||||||||  || |  :|| ||||||||
Db         80 NQKFKGKATLTVDKSSSTAFMHLNSLTSEDSAVYYCARGGEGYYFDYWGQGTTLTVSS 137


RESULT 11
US-09-647-468-154
; Sequence 154, Application US/09647468
; Patent No. 6677436
; GENERAL INFORMATION:
;  APPLICANT: SATO, KOH
;  APPLICANT:  ADACHI, HIDEKI
;  APPLICANT:  YABUTA, NAOHIRO
;  TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
;  TITLE OF INVENTION:  PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
;  FILE REFERENCE: 053466/0289
;  CURRENT APPLICATION NUMBER: US/09/647,468
;  CURRENT FILING DATE:  2000-09-29
;  PRIOR APPLICATION NUMBER: PCT/JP99/01768
;  PRIOR FILING DATE: 1999-04-02
;  PRIOR APPLICATION NUMBER: JP 10-91850
;  PRIOR FILING DATE: 1998-04-03
;  NUMBER OF SEQ ID NOS: 183
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 154
;   LENGTH: 137
;   TYPE: PRT
;   ORGANISM: Mus sp.
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Amino acid
;   OTHER INFORMATION: sequence coding for H chain V region of ant-TF
;   OTHER INFORMATION: mouse monoclonal antibody ATR-3
US-09-647-468-154

  Query Match             79.8%;  Score 487;  DB 4;  Length 137;
  Best Local Similarity   80.5%;  Pred. No. 4.6e-40;
  Matches   95;  Conservative    8;  Mismatches   11;  Indels    4;  Gaps    2;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |:|||||||:|||||||||:|||||||||| | ::|||||||||||||| : | |||| |
Db         20 EIQLQQSGPELVKPGASVKVSCKASGYSFTDYNMYWVKQSHGKSLEWIGYIDPYNGGTIY 79

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAR--EGIY--WWGHGTTLTVSS 114
              |||||||| |||||||||:| | |||||||||||||||  || |  :|| ||||||||
Db         80 NQKFKGKATLTVDKSSSTAFMHLNSLTSEDSAVYYCARGGEGYYFDYWGQGTTLTVSS 137


RESULT 12
US-08-202-047-21
; Sequence 21, Application US/08202047
; Patent No. 5800815
;  GENERAL INFORMATION:
;    APPLICANT:  CHESNUT, Robert W.
;    APPLICANT:  POLLEY, Margaret J.
;    APPLICANT:  PAULSON, James C.
;    APPLICANT:  JONES, S. Tarran
;    APPLICANT:  SALDANHA, Jose W.
;    APPLICANT:  BENDIG, Mary M.
;    TITLE OF INVENTION:  Antibodies to P-Selectin and Their Uses
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend Khourie and Crew
;      STREET:  One Market Plaza, Steuart Tower, Suite 2000
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94105
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/202,047
;      FILING DATE:  25-FEB-1994
;      CLASSIFICATION:  424
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, William M.
;      REGISTRATION NUMBER:  30,223
;      REFERENCE/DOCKET NUMBER:  14137-77
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-326-2400
;      TELEFAX:  415-326-2422
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  128 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..128
;      OTHER INFORMATION:  /label= MOUSE_IIA
US-08-202-047-21

  Query Match             79.5%;  Score 485;  DB 1;  Length 128;
  Best Local Similarity   74.2%;  Pred. No. 6.6e-40;
  Matches   95;  Conservative    8;  Mismatches   11;  Indels   14;  Gaps    1;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |||||||||:|||||||||||||||||:|| ||::||||| |||||||  : | ||||||
Db          1 EVQLQQSGPELVKPGASVKISCKASGYTFTDYYMNWVKQSPGKSLEWIGDINPGNGGTSY 60

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAREGIY-------------WWGH 106
              ||||||| |||||||||||:| |||||||||||||    |                :||
Db         61 NQKFKGKATLTVDKSSSTAYMQLSSLTSEDSAVYYCARGXYYSSSYMXAXXYYAFDYWGQ 120

Qy        107 GTTLTVSS 114
              |||:||||
Db        121 GTTVTVSS 128


RESULT 13
US-08-964-690-21
; Sequence 21, Application US/08964690
; Patent No. 6033667
;  GENERAL INFORMATION:
;    APPLICANT:  CHESNUT, Robert W.
;    APPLICANT:  POLLEY, Margaret J.
;    APPLICANT:  PAULSON, James C.
;    APPLICANT:  JONES, S. Tarran
;    APPLICANT:  SALDANHA, Jose W.
;    APPLICANT:  BENDIG, Mary M.
;    TITLE OF INVENTION:  Antibodies to P-Selectin and Their Uses
;    NUMBER OF SEQUENCES:  45
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Townsend and Townsend Khourie and Crew
;      STREET:  One Market Plaza, Steuart Tower, Suite 2000
;      CITY:  San Francisco
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  94105
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
```

```
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/964,690
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/202,047
;      FILING DATE:  25-FEB-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Smith, William M.
;      REGISTRATION NUMBER:  30,223
;      REFERENCE/DOCKET NUMBER:  14137-77
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  415-326-2400
;      TELEFAX:  415-326-2422
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  128 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
;    FEATURE:
;      NAME/KEY:  Protein
;      LOCATION:  1..128
;      OTHER INFORMATION:  /label= MOUSE_IIA
US-08-964-690-21

  Query Match             79.5%;  Score 485;  DB 3;  Length 128;
  Best Local Similarity   74.2%;  Pred. No. 6.6e-40;
  Matches   95;  Conservative    8;  Mismatches   11;  Indels   14;  Gaps    1;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |||||||||:|||||||||||||||||||:|| ||::|||| |||||||| : | ||||||
Db          1 EVQLQQSGPELVKPGASVKISCKASGYTFTDYYMNWVKQSPGKSLEWIGDINPGNGGTSY 60

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAREGIY-------------WWGH 106
              |||||||| ||||||||||||:| |||||||||||||  |                :||
Db         61 NQKFKGKATLTVDKSSSTAYMQLSSLTSEDSAVYYCARGXYYSSSYMXAXXYYAFDYWGQ 120

Qy        107 GTTLTVSS 114
              |||:||||
Db        121 GTTVTVSS 128


RESULT 14
US-08-838-682-8
; Sequence 8, Application US/08838682
; Patent No. 6107090
;  GENERAL INFORMATION:
;    APPLICANT:  Bander M.D., Neil H.
;    TITLE OF INVENTION:  TREATMENT AND DIAGNOSIS OF PROSTATE
;    TITLE OF INVENTION:  CANCER
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Nixon, Hargrave, Devans & Doyle LLP
;      STREET:  Clinton Square, P.O. Box 1051
;      CITY:  Rochester
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  14603-1051
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/838,682
;      FILING DATE:
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/016,976
;      FILING DATE:  06-MAY-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/022,125
;      FILING DATE:  18-JUL-1996
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldman, Michael L.
;      REGISTRATION NUMBER:  30,727
;      REFERENCE/DOCKET NUMBER:  19603/1172
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (716) 263-1304
;      TELEFAX:  (716) 263-1600
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  115 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-838-682-8

  Query Match             79.3%;  Score 483.5;  DB 3;  Length 115;
  Best Local Similarity   80.9%;  Pred. No. 8.2e-40;
  Matches   93;  Conservative    8;  Mismatches   13;  Indels    1;  Gaps    1;

Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |||||||||:|||||||:|||| |||:|| | ||||||||||||||| : ||||||:|
Db          1 EVQLQQSGPELVKPGTSVRISCKTSGYTFTEYTIHWVKQSHGKSLEWIGNINPNNGGTTY 60

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAREGIY-WWGHGTTLTVSS 114
              ||||: || |||||||||||||||||||||||||||||||    : :|| ||||||||
Db         61 NQKFEDKATLTVDKSSSTAYMELRSLTSEDSAVYYCAAGWNFDYWGQGTTLTVSS 115


RESULT 15
US-08-895-914-8
; Sequence 8, Application US/08895914
; Patent No. 6136311
;  GENERAL INFORMATION:
;    APPLICANT:  Bander, Neil H.
;    TITLE OF INVENTION:  TREATMENT AND DIAGNOSIS OF CANCER
;    NUMBER OF SEQUENCES:  19
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Nixon, Hargrave, Devans & Doyle LLP
;      STREET:  Clinton Square, P.O. Box 1051
;      CITY:  Rochester
;      STATE:  New York
;      COUNTRY:  U.S.A.
;      ZIP:  14603-1051
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/895,914
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/016,976
;      FILING DATE:  06-MAY-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 60/022,125
;      FILING DATE:  18-JUL-1996
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/838,682
;      FILING DATE:  09-APR-1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldman, Michael L.
;      REGISTRATION NUMBER:  30,727
;      REFERENCE/DOCKET NUMBER:  19603/1173
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (716) 263-1304
;      TELEFAX:  (716) 263-1600
;  INFORMATION FOR SEQ ID NO:  8:
```

; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-895-914-8

Query Match 79.3%; Score 483.5; DB 3; Length 115;
Best Local Similarity 80.9%; Pred. No. 8.2e-40;
Matches 93; Conservative 8; Mismatches 13; Indels 1; Gaps 1;

```
Qy          1 EVQLQQSGPDLVKPGASVKISCKASGYSFTGYYIHWVKQSHGKSLEWIGRVIPNNGGTSY 60
              |||||||||:|||||  ||:|||| |||:|| | |||||||||||||||| : ||||||:|
Db          1 EVQLQQSGPELVKPGTSVRISCKTSGYTFTEYTIHWVKQSHGKSLEWIGNINPNNGGTTY 60

Qy         61 NQKFKGKAILTVDKSSSTAYMELRSLTSEDSAVYYCAREGIY-WWGHGTTLTVSS 114
              ||||: || |||||||||||||||||||||||||||||    : :|| ||||||||
Db         61 NQKFEDKATLTVDKSSSTAYMELRSLTSEDSAVYYCAAGWNFDYWGQGTTLTVSS 115
```

Search completed: May 12, 2004, 08:12:43
Job time : 17.1416 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: May 12, 2004, 08:11:16 ; Search time 15.8584 Seconds
(without alignments)
364.608 Million cell updates/sec

Title: US-09-724-409-2
Perfect score: 587
Sequence: 1 DVVVTQTPLSLPVSLGAQAS.....CSQTTHVPWTFGGGTKLEIQ 112

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	550	93.7	238	2	US-08-224-591-12	Sequence 12, Appl
2	550	93.7	238	2	US-08-392-338A-21	Sequence 21, Appl
3	550	93.7	238	2	US-08-926-789-12	Sequence 12, Appl
4	550	93.7	238	3	US-09-166-750-21	Sequence 21, Appl
5	550	93.7	238	3	US-09-166-093-21	Sequence 21, Appl
6	550	93.7	238	3	US-09-172-019-21	Sequence 21, Appl
7	550	93.7	238	3	US-09-166-094-21	Sequence 21, Appl
8	550	93.7	238	4	US-09-443-213-21	Sequence 21, Appl
9	550	93.7	239	5	PCT-US93-11138-12	Sequence 12, Appl
10	550	93.7	240	2	US-08-392-338A-11	Sequence 11, Appl
11	550	93.7	240	3	US-09-166-750-11	Sequence 11, Appl
12	550	93.7	240	3	US-09-166-093-11	Sequence 11, Appl
13	550	93.7	240	3	US-09-172-019-11	Sequence 11, Appl
14	550	93.7	240	3	US-09-166-094-11	Sequence 11, Appl
15	550	93.7	240	4	US-09-443-213-11	Sequence 11, Appl
16	550	93.7	250	2	US-08-392-338A-15	Sequence 15, Appl
17	550	93.7	250	3	US-09-166-750-15	Sequence 15, Appl
18	550	93.7	250	3	US-09-166-093-15	Sequence 15, Appl
19	550	93.7	250	3	US-09-172-019-15	Sequence 15, Appl
20	550	93.7	250	3	US-09-166-094-15	Sequence 15, Appl
21	550	93.7	250	4	US-09-443-213-15	Sequence 15, Appl
22	550	93.7	253	2	US-08-392-338A-17	Sequence 17, Appl
23	550	93.7	253	3	US-09-166-750-17	Sequence 17, Appl
24	550	93.7	253	3	US-09-166-093-17	Sequence 17, Appl
25	550	93.7	253	3	US-09-172-019-17	Sequence 17, Appl
26	550	93.7	253	3	US-09-166-094-17	Sequence 17, Appl
27	550	93.7	253	4	US-09-443-213-17	Sequence 17, Appl
28	549	93.5	242	6	5455030-17	Patent No. 5455030
29	546	93.0	131	3	US-08-589-939-7	Sequence 7, Appli
30	539	91.8	114	1	US-07-942-245-9	Sequence 9, Appli
31	538	91.7	638	3	US-09-070-637-20	Sequence 20, Appl
32	537	91.5	112	2	US-08-606-293-4	Sequence 4, Appli
33	534	91.0	246	1	US-08-257-341-7	Sequence 7, Appli
34	534	91.0	252	1	US-08-133-804-4	Sequence 4, Appli
35	534	91.0	252	1	US-08-461-838-4	Sequence 4, Appli
36	534	91.0	252	2	US-08-461-386-4	Sequence 4, Appli
37	534	91.0	367	1	US-08-257-341-5	Sequence 5, Appli
38	528	89.9	112	2	US-08-606-293-8	Sequence 8, Appli
39	528	89.9	173	5	PCT-US91-02942-3	Sequence 3, Appli
40	528	89.9	173	5	PCT-US91-02946-3	Sequence 3, Appli
41	527	89.8	285	3	US-09-318-661-4	Sequence 4, Appli
42	527	89.8	285	4	US-09-883-758-4	Sequence 4, Appli
43	526.5	89.7	127	1	US-08-482-882-45	Sequence 45, Appl
44	526.5	89.7	127	2	US-08-483-389-45	Sequence 45, Appl
45	526.5	89.7	127	2	US-08-487-113D-45	Sequence 45, Appl

ALIGNMENTS

```
RESULT 1
US-08-224-591-12
; Sequence 12, Application US/08224591
; Patent No. 5856456
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Filpula, David
;    TITLE OF INVENTION:  Linker For Linked Fusion Polypeptides
;    NUMBER OF SEQUENCES:  25
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox
;      STREET:  1100 New York Avenue, Suite 600
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/224,591
;      FILING DATE:  Herewith
;      CLASSIFICATION:  530
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/002,845
;      FILING DATE:  15-JAN-1993
;      APPLICATION NUMBER:  US 07/980,529
;      FILING DATE:  20-NOV-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.1920002/JAG
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  12:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  238 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-224-591-12

  Query Match             93.7%;  Score 550;  DB 2;  Length 238;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
```

```
                ||||:|||||||||||||  |||||||||||||||||||||:|  ||||||||||||:|||  |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
               ||||||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 2
US-08-392-338A-21
; Sequence 21, Application US/08392338A
; Patent No. 5869620
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/392,338A
;      FILING DATE:  22-FEB-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.0030007
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  238 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-392-338A-21

  Query Match             93.7%;  Score 550;  DB 2;  Length 238;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||  |||||||||||||||||||:|  ||||||||||:|||  |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
               ||||||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 3
US-08-926-789-12
; Sequence 12, Application US/08926789
; Patent No. 5990275
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Filpula, David
;    TITLE OF INVENTION:  Linker For Linked Fusion Polypeptides
;    NUMBER OF SEQUENCES:  25
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox
;      STREET:  1100 New York Avenue, Suite 600
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/926,789
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/224,591
;      FILING DATE:
;      APPLICATION NUMBER:  US 08/002,845
;      FILING DATE:  15-JAN-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/980,529
;      FILING DATE:  20-NOV-1992
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.1920002/JAG
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  12:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  238 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-926-789-12

  Query Match             93.7%;  Score 550;  DB 2;  Length 238;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||  |||||||||||||||||||:|  ||||||||||:|||  |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
               ||||||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 4
US-09-166-750-21
; Sequence 21, Application US/09166750
; Patent No. 6025165
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Methods for Producing Multivalent Antigen-Binding
;    TITLE OF INVENTION:  Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
```

```
;       ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;       STREET:  1100 New York Avenue, NW
;       CITY:  Washington
;       STATE:  D.C.
;       COUNTRY:  U.S.A.
;       ZIP:  20005
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/166,750
;       FILING DATE:  Herewith
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/392,338
;       FILING DATE:  22-FEB-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/989,846
;       FILING DATE:  20-NOV-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/796,936
;       FILING DATE:  25-NOV-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Goldstein, Jorge A.
;       REGISTRATION NUMBER:  29,021
;       REFERENCE/DOCKET NUMBER:  0977.003000C
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (202) 371-2600
;       TELEFAX:  (202) 371-2540
;   INFORMATION FOR SEQ ID NO:  21:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  238 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-09-166-750-21

  Query Match             93.7%;  Score 550;  DB 3;  Length 238;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| ||||||||||||||||||:| |||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 5
US-09-166-093-21
; Sequence 21, Application US/09166093
; Patent No. 6027725
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/166,093
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000B
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  238 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-166-093-21

  Query Match             93.7%;  Score 550;  DB 3;  Length 238;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| ||||||||||||||||||:| |||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 6
US-09-172-019-21
; Sequence 21, Application US/09172019
; Patent No. 6103889
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    TITLE OF INVENTION:  Nucleic Acid Molecules Encoding Single-Chain
;    TITLE OF INVENTION:  Antigen-Binding Proteins (As Amended)
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/172,019
;      FILING DATE:  Herewith
;      CLASSIFICATION:
```

```
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000D
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  238 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-172-019-21

  Query Match             93.7%;  Score 550;  DB 3;  Length 238;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| |||||||||||||||||:| ||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 7
US-09-166-094-21
; Sequence 21, Application US/09166094
; Patent No. 6121424
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/166,094
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  238 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-166-094-21

  Query Match             93.7%;  Score 550;  DB 3;  Length 238;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| |||||||||||||||||:| ||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 8
US-09-443-213-21
; Sequence 21, Application US/09443213
; Patent No. 6515110
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/443,213
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 09/166,094
;      FILING DATE:  05-OCT-1998
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
```

```
;       REGISTRATION NUMBER:  29,021
;       REFERENCE/DOCKET NUMBER:  0977.003000E
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (202) 371-2600
;       TELEFAX:  (202) 371-2540
;   INFORMATION FOR SEQ ID NO:  21:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  238 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-09-443-213-21

  Query Match             93.7%;  Score 550;  DB 4;  Length 238;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| ||||||||||||||||:| ||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 9
PCT-US93-11138-12
; Sequence 12, Application PC/TUS9311138
;  GENERAL INFORMATION:
;     APPLICANT:  Enzon, Inc.
;     TITLE OF INVENTION:  Linker For Linked Fusion Polypeptides
;     NUMBER OF SEQUENCES:  14
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Sterne, Kessler, Goldstein & Fox
;       STREET:  1100 New York Avenue, N.W.
;       CITY:  Washington
;       STATE:  D.C.
;       COUNTRY:  U.S.A.
;       ZIP:  20005-3934
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  PCT/US93/11138
;       FILING DATE:  Herewith
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/980,529
;       FILING DATE:  20-NOV-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/002,845
;       FILING DATE:  15-JAN-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Goldstein, Jorge A.
;       REGISTRATION NUMBER:  29,021
;       REFERENCE/DOCKET NUMBER:  0977.2006604/JAG
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (202) 371-2600
;       TELEFAX:  (202) 371-2540
;   INFORMATION FOR SEQ ID NO:  12:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  239 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
PCT-US93-11138-12

  Query Match             93.7%;  Score 550;  DB 5;  Length 239;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| ||||||||||||||||:| ||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 10
US-08-392-338A-11
; Sequence 11, Application US/08392338A
; Patent No. 5869620
;  GENERAL INFORMATION:
;     APPLICANT:  Whitlow, Marc
;     APPLICANT:  Wood, James F.
;     APPLICANT:  Hardman, Karl
;     APPLICANT:  Bird, Robert
;     APPLICANT:  Filpula, David
;     TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;     NUMBER OF SEQUENCES:  23
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;       STREET:  1100 New York Avenue, NW
;       CITY:  Washington
;       STATE:  D.C.
;       COUNTRY:  U.S.A.
;       ZIP:  20005
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/392,338A
;       FILING DATE:  22-FEB-1995
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/989,846
;       FILING DATE:  20-NOV-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/796,936
;       FILING DATE:  25-NOV-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Goldstein, Jorge A.
;       REGISTRATION NUMBER:  29,021
;       REFERENCE/DOCKET NUMBER:  0977.0030007
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (202) 371-2600
;       TELEFAX:  (202) 371-2540
;   INFORMATION FOR SEQ ID NO:  11:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  240 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-392-338A-11

  Query Match             93.7%;  Score 550;  DB 2;  Length 240;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| ||||||||||||||||:| ||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 11
```

```
US-09-166-750-11
; Sequence 11, Application US/09166750
; Patent No. 6025165
;  GENERAL INFORMATION:
;     APPLICANT:  Whitlow, Marc
;     APPLICANT:  Wood, James F.
;     APPLICANT:  Hardman, Karl
;     APPLICANT:  Bird, Robert
;     APPLICANT:  Filpula, David
;     APPLICANT:  Rollence, Michelle
;     TITLE OF INVENTION:  Methods for Producing Multivalent Antigen-Binding
;     TITLE OF INVENTION:  Proteins
;     NUMBER OF SEQUENCES:  23
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;       STREET:  1100 New York Avenue, NW
;       CITY:  Washington
;       STATE:  D.C.
;       COUNTRY:  U.S.A.
;       ZIP:  20005
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/166,750
;       FILING DATE:  Herewith
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/392,338
;       FILING DATE:  22-FEB-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/989,846
;       FILING DATE:  20-NOV-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/796,936
;       FILING DATE:  25-NOV-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Goldstein, Jorge A.
;       REGISTRATION NUMBER:  29,021
;       REFERENCE/DOCKET NUMBER:  0977.003000C
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (202) 371-2600
;       TELEFAX:  (202) 371-2540
;   INFORMATION FOR SEQ ID NO:  11:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  240 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-09-166-750-11

  Query Match             93.7%;  Score 550;  DB 3;  Length 240;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| |||||||||||||||||:| ||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 12
US-09-166-093-11
; Sequence 11, Application US/09166093
; Patent No. 6027725
;  GENERAL INFORMATION:
;     APPLICANT:  Whitlow, Marc
;     APPLICANT:  Wood, James F.
;     APPLICANT:  Hardman, Karl
;     APPLICANT:  Bird, Robert
;     APPLICANT:  Filpula, David
;     APPLICANT:  Rollence, Michelle
;     TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;     NUMBER OF SEQUENCES:  23
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;       STREET:  1100 New York Avenue, NW
;       CITY:  Washington
;       STATE:  D.C.
;       COUNTRY:  U.S.A.
;       ZIP:  20005
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/166,093
;       FILING DATE:  Herewith
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/392,338
;       FILING DATE:  22-FEB-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/989,846
;       FILING DATE:  20-NOV-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/796,936
;       FILING DATE:  25-NOV-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Goldstein, Jorge A.
;       REGISTRATION NUMBER:  29,021
;       REFERENCE/DOCKET NUMBER:  0977.003000B
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (202) 371-2600
;       TELEFAX:  (202) 371-2540
;   INFORMATION FOR SEQ ID NO:  11:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  240 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-09-166-093-11

  Query Match             93.7%;  Score 550;  DB 3;  Length 240;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| |||||||||||||||||:| ||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 13
US-09-172-019-11
; Sequence 11, Application US/09172019
; Patent No. 6103889
;  GENERAL INFORMATION:
;     APPLICANT:  Whitlow, Marc
;     APPLICANT:  Hardman, Karl
;     APPLICANT:  Bird, Robert
;     APPLICANT:  Filpula, David
;     TITLE OF INVENTION:  Nucleic Acid Molecules Encoding Single-Chain
;     TITLE OF INVENTION:  Antigen-Binding Proteins (As Amended)
;     NUMBER OF SEQUENCES:  23
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
```

```
;       STREET:  1100 New York Avenue, NW
;       CITY:  Washington
;       STATE:  D.C.
;       COUNTRY:  U.S.A.
;       ZIP:  20005
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/172,019
;       FILING DATE:  Herewith
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 08/392,338
;       FILING DATE:  22-FEB-1995
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/989,846
;       FILING DATE:  20-NOV-1992
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/796,936
;       FILING DATE:  25-NOV-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Goldstein, Jorge A.
;       REGISTRATION NUMBER:  29,021
;       REFERENCE/DOCKET NUMBER:  0977.003000D
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (202) 371-2600
;       TELEFAX:  (202) 371-2540
;   INFORMATION FOR SEQ ID NO:  11:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  240 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-09-172-019-11

  Query Match             93.7%;  Score 550;  DB 3;  Length 240;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| ||||||||||||||||||:| ||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 14
US-09-166-094-11
; Sequence 11, Application US/09166094
; Patent No. 6121424
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/166,094
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000A
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  240 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-166-094-11

  Query Match             93.7%;  Score 550;  DB 3;  Length 240;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| ||||||||||||||||||:| ||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||:|||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


RESULT 15
US-09-443-213-11
; Sequence 11, Application US/09443213
; Patent No. 6515110
;  GENERAL INFORMATION:
;    APPLICANT:  Whitlow, Marc
;    APPLICANT:  Wood, James F.
;    APPLICANT:  Hardman, Karl
;    APPLICANT:  Bird, Robert
;    APPLICANT:  Filpula, David
;    APPLICANT:  Rollence, Michelle
;    TITLE OF INVENTION:  Multivalent Antigen-Binding Proteins
;    NUMBER OF SEQUENCES:  23
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Sterne, Kessler, Goldstein & Fox P.L.L.C.
;      STREET:  1100 New York Avenue, NW
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/443,213
;      FILING DATE:  Herewith
;      CLASSIFICATION:
```

```
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 09/166,094
;      FILING DATE:  05-OCT-1998
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/392,338
;      FILING DATE:  22-FEB-1995
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/989,846
;      FILING DATE:  20-NOV-1992
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 07/796,936
;      FILING DATE:  25-NOV-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Goldstein, Jorge A.
;      REGISTRATION NUMBER:  29,021
;      REFERENCE/DOCKET NUMBER:  0977.003000E
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (202) 371-2600
;      TELEFAX:  (202) 371-2540
;  INFORMATION FOR SEQ ID NO:  11:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  240 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-09-443-213-11

  Query Match             93.7%;  Score 550;  DB 4;  Length 240;
  Best Local Similarity   92.9%;  Pred. No. 1.1e-48;
  Matches  104;  Conservative    5;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| ||||||||||||||||||:| |||||||||||:||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLRWYLQKPGQSPKVLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||||||:||||||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLEIK 112


Search completed: May 12, 2004, 08:12:42
Job time : 16.8584 secs
```

OM protein - protein search, using sw model

Run on: May 12, 2004, 08:11:16 ; Search time 297.841 Seconds
(without alignments)
104.376 Million cell updates/sec

Title: US-09-724-409-2
Perfect score: 587
Sequence: 1 DVVVTQTPLSLPVSLGAQAS.....CSQTTHVPWTFGGGTKLEIQ 112

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1140673 seqs, 277566755 residues

Total number of hits satisfying chosen parameters: 1140673

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep:*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	552	94.0	139	12	US-10-372-481-29	Sequence 29, Appl
2	552	94.0	139	15	US-10-371-797-29	Sequence 29, Appl
3	545	92.8	507	12	US-10-239-656-47	Sequence 47, Appl
4	545	92.8	510	12	US-10-239-656-48	Sequence 48, Appl
5	545	92.8	510	12	US-10-239-656-49	Sequence 49, Appl
6	541	92.2	112	10	US-09-518-737-4	Sequence 4, Appli
7	534	91.0	252	9	US-09-887-853-4	Sequence 4, Appli
8	532	90.6	112	10	US-09-995-529-10	Sequence 10, Appl
9	527	89.8	131	12	US-10-257-864A-85	Sequence 85, Appl
10	527	89.8	131	12	US-10-257-864A-87	Sequence 87, Appl
11	527	89.8	131	12	US-10-221-131-90	Sequence 90, Appl
12	527	89.8	131	12	US-10-221-131-92	Sequence 92, Appl
13	527	89.8	131	14	US-10-138-505-6	Sequence 6, Appli
14	527	89.8	131	14	US-10-138-505-10	Sequence 10, Appl
15	527	89.8	245	12	US-10-257-864A-95	Sequence 95, Appl
16	527	89.8	245	12	US-10-221-131-100	Sequence 100, App
17	527	89.8	245	14	US-10-138-505-40	Sequence 40, Appl
18	527	89.8	256	12	US-10-257-864A-97	Sequence 97, Appl
19	527	89.8	256	12	US-10-257-864A-98	Sequence 98, Appl
20	527	89.8	256	12	US-10-221-131-102	Sequence 102, App
21	527	89.8	256	12	US-10-221-131-103	Sequence 103, App
22	527	89.8	271	12	US-10-257-864A-91	Sequence 91, Appl
23	527	89.8	271	12	US-10-257-864A-93	Sequence 93, Appl
24	527	89.8	271	12	US-10-221-131-95	Sequence 95, Appl
25	527	89.8	271	12	US-10-221-131-96	Sequence 96, Appl
26	527	89.8	271	12	US-10-221-131-98	Sequence 98, Appl
27	527	89.8	271	14	US-10-138-505-30	Sequence 30, Appl
28	527	89.8	271	14	US-10-138-505-34	Sequence 34, Appl
29	527	89.8	274	12	US-10-257-864A-90	Sequence 90, Appl
30	527	89.8	274	12	US-10-257-864A-92	Sequence 92, Appl
31	527	89.8	274	12	US-10-221-131-97	Sequence 97, Appl
32	527	89.8	274	14	US-10-138-505-26	Sequence 26, Appl
33	527	89.8	274	14	US-10-138-505-32	Sequence 32, Appl
34	527	89.8	285	9	US-09-883-758-4	Sequence 4, Appli
35	527	89.8	533	12	US-10-257-864A-96	Sequence 96, Appl
36	527	89.8	533	12	US-10-221-131-101	Sequence 101, App
37	526.5	89.7	127	9	US-09-753-436-45	Sequence 45, Appl
38	526.5	89.7	127	14	US-10-163-942-45	Sequence 45, Appl
39	526	89.6	149	9	US-09-990-205-2	Sequence 2, Appli
40	526	89.6	263	14	US-10-153-401-66	Sequence 66, Appl
41	524	89.3	149	14	US-10-153-401-2	Sequence 2, Appli
42	523	89.1	112	14	US-10-153-401-15	Sequence 15, Appl
43	520	88.6	131	10	US-09-726-258-35	Sequence 35, Appl
44	520	88.6	242	10	US-09-726-258-42	Sequence 42, Appl
45	519.5	88.5	113	16	US-10-468-370-689	Sequence 689, App

ALIGNMENTS

RESULT 1
US-10-372-481-29
; Sequence 29, Application US/10372481
; Publication No. US20030202975A1
; GENERAL INFORMATION:
; APPLICANT: Tedder, Thomas F.
; TITLE OF INVENTION: REAGENTS AND TREATMENT METHODS FOR AUTOIMMUNE DISEASES
; FILE REFERENCE: 5405.306
; CURRENT APPLICATION NUMBER: US/10/372,481
; CURRENT FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: PCT/US03/05549
; PRIOR FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US 60/420,472
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/359,419
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 29
; LENGTH: 139
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-372-481-29

Query Match 94.0%; Score 552; DB 12; Length 139;
Best Local Similarity 93.8%; Pred. No. 3.9e-47;
Matches 105; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| |||||||||||||||:|||||||||||||| |||||
Db         20 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLHWYLQKPGQSPKLLIYKVSNRF 79

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||||:||||:||||||||||:
Db         80 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPYTFGGGTKLEIK 131
```

RESULT 2

US-10-371-797-29
; Sequence 29, Application US/10371797
; Publication No. US20040001828A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: TUSCANO, Joseph
; APPLICANT: TEDDER, Thomas
; TITLE OF INVENTION: TREATMENT METHODS USING ANTI-CD22
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCE: 39754-0951
; CURRENT APPLICATION NUMBER: US/10/371,797
; CURRENT FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US 60/420,472
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/359,419
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 139
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-371-797-29

Query Match 94.0%; Score 552; DB 15; Length 139;
Best Local Similarity 93.8%; Pred. No. 3.9e-47;
Matches 105; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:||||||||||||| ||||||||||||||||||:||||||||||||||||| |||||
Db         20 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLHWYLQKPGQSPKLLIYKVSNRF 79

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||||||:||||:||||||||||:
Db         80 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPYTFGGGTKLEIK 131
```

RESULT 3
US-10-239-656-47
; Sequence 47, Application US/10239656
; Publication No. US20040038339A1
; GENERAL INFORMATION:
; APPLICANT: KUFER, PETER
; APPLICANT: RIETHMULLER, GERT
; APPLICANT: LUTTERBUSE, RALF
; APPLICANT: BORSCHERT, KATRIN
; APPLICANT: KISCHEL, ROMAN
; APPLICANT: MAYER, MONIKA
; APPLICANT: HOFMEISTER, ROBERT
; TITLE OF INVENTION: MULTIFUNCTIONAL POLYPEPTIDES COMPRISING A BINDING SITE
; TITLE OF INVENTION: TO AN EPITOPE OF THE NKG2D RECEPTOR COMPLEX
; FILE REFERENCE: 029976/0106
; CURRENT APPLICATION NUMBER: US/10/239,656
; CURRENT FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: PCT/EP01/03414
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: EP 00106467.4
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 47
; LENGTH: 507
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic 11B2D10x4-
; OTHER INFORMATION: 7 bispecific single chain Fv
US-10-239-656-47

Query Match 92.8%; Score 545; DB 12; Length 507;
Best Local Similarity 92.0%; Pred. No. 8.1e-46;
Matches 103; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              ::|:||||||||||| |||||||||||||||||:||||||||||||||| |||||
Db        384 ELVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLHWYLQKPGQSPKLLIYKVSNRF 443

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||||||:||||:||||||||||:
Db        444 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPYTFGGGTKLEIK 495
```

RESULT 4
US-10-239-656-48
; Sequence 48, Application US/10239656
; Publication No. US20040038339A1
; GENERAL INFORMATION:
; APPLICANT: KUFER, PETER
; APPLICANT: RIETHMULLER, GERT
; APPLICANT: LUTTERBUSE, RALF
; APPLICANT: BORSCHERT, KATRIN
; APPLICANT: KISCHEL, ROMAN
; APPLICANT: MAYER, MONIKA
; APPLICANT: HOFMEISTER, ROBERT
; TITLE OF INVENTION: MULTIFUNCTIONAL POLYPEPTIDES COMPRISING A BINDING SITE
; TITLE OF INVENTION: TO AN EPITOPE OF THE NKG2D RECEPTOR COMPLEX
; FILE REFERENCE: 029976/0106
; CURRENT APPLICATION NUMBER: US/10/239,656
; CURRENT FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: PCT/EP01/03414
; PRIOR FILING DATE: 2001-03-26
; PRIOR APPLICATION NUMBER: EP 00106467.4
; PRIOR FILING DATE: 2000-03-24
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 48
; LENGTH: 510
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic 8G7C10x4-
; OTHER INFORMATION: 7 bispecific single chain Fv
US-10-239-656-48

Query Match 92.8%; Score 545; DB 12; Length 510;
Best Local Similarity 92.0%; Pred. No. 8.1e-46;
Matches 103; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

```
Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              ::|:||||||||||| |||||||||||||||||:||||||||||||||| |||||
Db        387 ELVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLHWYLQKPGQSPKLLIYKVSNRF 446

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||||||:||||:||||||||||:
Db        447 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPYTFGGGTKLEIK 498
```

RESULT 5
US-10-239-656-49
; Sequence 49, Application US/10239656
; Publication No. US20040038339A1
; GENERAL INFORMATION:
; APPLICANT: KUFER, PETER
; APPLICANT: RIETHMULLER, GERT
; APPLICANT: LUTTERBUSE, RALF
; APPLICANT: BORSCHERT, KATRIN
; APPLICANT: KISCHEL, ROMAN
; APPLICANT: MAYER, MONIKA
; APPLICANT: HOFMEISTER, ROBERT
; TITLE OF INVENTION: MULTIFUNCTIONAL POLYPEPTIDES COMPRISING A BINDING SITE
; TITLE OF INVENTION: TO AN EPITOPE OF THE NKG2D RECEPTOR COMPLEX
; FILE REFERENCE: 029976/0106
; CURRENT APPLICATION NUMBER: US/10/239,656
; CURRENT FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: PCT/EP01/03414
; PRIOR FILING DATE: 2001-03-26

```
;  PRIOR APPLICATION NUMBER: EP 00106467.4
;  PRIOR FILING DATE: 2000-03-24
;  NUMBER OF SEQ ID NOS: 92
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 49
;   LENGTH: 510
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic 6E5A7x4-
;   OTHER INFORMATION: 7 bispecific single chain Fv
US-10-239-656-49

  Query Match             92.8%;  Score 545;  DB 12;  Length 510;
  Best Local Similarity   92.0%;  Pred. No. 8.1e-46;
  Matches  103;  Conservative    7;  Mismatches    2;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              ::|:|||||||||||||| |||||||||||||||||:|||||||||||||||| |||||
Db        387 ELVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLHWYLQKPGQSPKLLIYKVSNRF 446

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||||:||||:||||||||||:
Db        447 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPYTFGGGTKLEIK 498


RESULT 6
US-09-518-737-4
; Sequence 4, Application US/09518737
; Publication No. US20030008321A1
; GENERAL INFORMATION:
;  APPLICANT: FUKUI, YASUHISA
;  APPLICANT:  NAGATA, SATOSHI
;  APPLICANT:  SHIRAI, RYUICHI
;  APPLICANT:  SAITO, NAOAKI
;  TITLE OF INVENTION: MONOCLONAL ANTIBODY RECOGNIZING
;  TITLE OF INVENTION:  PHOSPHATIDYLINOSITOL-3,4-DIPHOSPHATE
;  FILE REFERENCE: 1965/49618
;  CURRENT APPLICATION NUMBER: US/09/518,737
;  CURRENT FILING DATE:  2000-03-03
;  PRIOR APPLICATION NUMBER: JP 1999-250209
;  PRIOR FILING DATE: 1999-09-03
;  NUMBER OF SEQ ID NOS: 10
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
;   LENGTH: 112
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-518-737-4

  Query Match             92.2%;  Score 541;  DB 10;  Length 112;
  Best Local Similarity   92.0%;  Pred. No. 3.8e-46;
  Matches  103;  Conservative    6;  Mismatches    3;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| |||||||||||||||||:|||||||||||||||| |||||
Db          1 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLHWYLQKPGQSPKLLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||: |||||||||||||||||||:||||:||||||||||:
Db         61 SGVPDRFSGSGTRTDFTLKISRVEAEDLGVYFCSQSTHVPYTFGGGTKLEIK 112


RESULT 7
US-09-887-853-4
; Sequence 4, Application US/09887853
; Patent No. US20020168375A1
;   GENERAL INFORMATION:
;        APPLICANT: Huston, James S.
;                   Oppermann, Hermann
;                   Houston, L. L.
;                   Ring, David B.
;        TITLE OF INVENTION: Biosynthetic Binding Proteins For
;                            Imaging
;        NUMBER OF SEQUENCES: 11
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Testa, Hurwitz & Thibeault/Patent Department
;             STREET: Exchange Place, 53 State Street
;             CITY: Boston
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02109
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: Floppy disk
;             COMPUTER: IBM PC compatible
;             OPERATING SYSTEM: PC-DOS/MS-DOS
;             SOFTWARE: PatentIn Release #1.0, Version #1.25
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/887,853
;             FILING DATE: 21-Jun-2001
;             CLASSIFICATION: <Unknown>
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/08/133,804
;             FILING DATE: <Unknown>
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Kelley, Robin D.
;             REGISTRATION NUMBER: 34,637
;             REFERENCE/DOCKET NUMBER: 2054/22
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 617-248-7477
;             TELEFAX: 617-248-7100
;   INFORMATION FOR SEQ ID NO: 4:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 252 amino acids
;             TYPE: amino acid
;             TOPOLOGY: linear
;        MOLECULE TYPE: protein
;        SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-887-853-4

  Query Match             91.0%;  Score 534;  DB 9;  Length 252;
  Best Local Similarity   92.0%;  Pred. No. 4.6e-45;
  Matches  103;  Conservative    5;  Mismatches    4;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| |||||||||||||||||:|:||||| ||||||||| |||||
Db        134 DVVMTQTPLSLPVSLGDQASISCRSSQSLVHSNGNTYLNWYLQKAGQSPKLLIYKVSNRF 193

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              ||||||||||||||||||||||||||||||||:||||||||| ||||||||:
Db        194 SGVPDRFSGSGSGTDFTLKISRVEAEDLGIYFCSQTTHVPPTFGGGTKLEIK 245


RESULT 8
US-09-995-529-10
; Sequence 10, Application US/09995529
; Publication No. US20030099655A1
; GENERAL INFORMATION:
;  APPLICANT: Watkins, Jeffry D.
;  APPLICANT:  Huse, William D.
;  APPLICANT:  Tang, Ying
;  TITLE OF INVENTION: Humanized Collagen Antibodies and
;  TITLE OF INVENTION:  Related Methods
;  FILE REFERENCE: P-IX 4976
;  CURRENT APPLICATION NUMBER: US/09/995,529
;  CURRENT FILING DATE:  2001-11-26
;  NUMBER OF SEQ ID NOS: 358
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 112
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-995-529-10

  Query Match             90.6%;  Score 532;  DB 10;  Length 112;
  Best Local Similarity   89.3%;  Pred. No. 3e-45;
```

```
  Matches  100;  Conservative    7;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              ||::|||||||||||| |||||||||||:|||||||:| |||||||||||||| |||||
Db          1 DVLMTQTPLSLPVSLGDQASISCRSSQSIVHSNGNTYLEWYLQKPGQSPKLLIYKVSNRF 60

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              |||||||||||||||||||||||||||||||:| | :|||||||||||||:
Db         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYYCFQGSHVPWTFGGGTKLEIK 112


RESULT 9
US-10-257-864A-85
; Sequence 85, Application US/10257864A
; Publication No. US20040058393A1
; GENERAL INFORMATION:
;  APPLICANT: FUKUSHIMA, NAOSHI
;  APPLICANT:  TSUCHIYA, MASAYUKI
;  APPLICANT:  OH-EDA, MASAYOSHI
;  APPLICANT:  UNO, SHINSUKE
;  APPLICANT:  KIKUCHI, YASUFUMI
;  APPLICANT:  GOTEMBA-SHI, OHTOMO
;  TITLE OF INVENTION: AGONIST ANTIBODIES
;  FILE REFERENCE: 065678-0107
;  CURRENT APPLICATION NUMBER: US/10/257,864A
;  CURRENT FILING DATE:  2003-07-24
;  PRIOR APPLICATION NUMBER: PCT/JP01/03288
;  PRIOR FILING DATE: 2001-04-17
;  PRIOR APPLICATION NUMBER: PCT/JP01/01912
;  PRIOR FILING DATE: 2001-03-12
;  PRIOR APPLICATION NUMBER: JP2000-115246
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: JP2000-321821
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: JP2000-321822
;  PRIOR FILING DATE: 2000-10-20
;  NUMBER OF SEQ ID NOS: 138
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 85
;   LENGTH: 131
;   TYPE: PRT
;   ORGANISM: Mus musculus
;   FEATURE:
;   OTHER INFORMATION: amino acid sequence encoded by SEQ ID NO: 5
US-10-257-864A-85

  Query Match             89.8%;  Score 527;  DB 12;  Length 131;
  Best Local Similarity   90.2%;  Pred. No. 1.1e-44;
  Matches  101;  Conservative    6;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| |||||||||||:|| |||:| |||||||||||||| |||||
Db         20 DVVMTQTPLSLPVSLGDQASISCRSSQSLLHSKGNTYLQWYLQKPGQSPKLLIYKVSNRF 79

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              |||||||||||||||||||||||||||||||:||||:| ||||||||:
Db         80 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPYTSGGGTKLEIK 131


RESULT 10
US-10-257-864A-87
; Sequence 87, Application US/10257864A
; Publication No. US20040058393A1
; GENERAL INFORMATION:
;  APPLICANT: FUKUSHIMA, NAOSHI
;  APPLICANT:  TSUCHIYA, MASAYUKI
;  APPLICANT:  OH-EDA, MASAYOSHI
;  APPLICANT:  UNO, SHINSUKE
;  APPLICANT:  KIKUCHI, YASUFUMI
;  APPLICANT:  GOTEMBA-SHI, OHTOMO
;  TITLE OF INVENTION: AGONIST ANTIBODIES
;  FILE REFERENCE: 065678-0107
;  CURRENT APPLICATION NUMBER: US/10/257,864A
;  CURRENT FILING DATE:  2003-07-24
;  PRIOR APPLICATION NUMBER: PCT/JP01/03288
;  PRIOR FILING DATE: 2001-04-17
;  PRIOR APPLICATION NUMBER: PCT/JP01/01912
;  PRIOR FILING DATE: 2001-03-12
;  PRIOR APPLICATION NUMBER: JP2000-115246
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: JP2000-321821
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: JP2000-321822
;  PRIOR FILING DATE: 2000-10-20
;  NUMBER OF SEQ ID NOS: 138
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 87
;   LENGTH: 131
;   TYPE: PRT
;   ORGANISM: Mus musculus
;   FEATURE:
;   OTHER INFORMATION: amino acid sequence encoded by SEQ ID NO: 7
US-10-257-864A-87

  Query Match             89.8%;  Score 527;  DB 12;  Length 131;
  Best Local Similarity   90.2%;  Pred. No. 1.1e-44;
  Matches  101;  Conservative    6;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:||:|||||||||| |||||||||||||||| |:|||||||||||||| |||||
Db         20 DVVMTQSPLSLPVSLGDQASISCRSSQSLVHSNGKTYLHWYLQKPGQSPKLLIYKVSNRF 79

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              |||||||||||| ||||| ||||||||||||||:||||:||||||||||:
Db         80 SGVPDRFSGSGSVTDFTLMISRVEAEDLGVYFCSQSTHVPYTFGGGTKLEIK 131


RESULT 11
US-10-221-131-90
; Sequence 90, Application US/10221131
; Publication No. US20040073013A1
; GENERAL INFORMATION:
;  APPLICANT: FUKUSHIMA, NAOSHI
;  APPLICANT:  TSUCHIYA, MASAYUKI
;  APPLICANT:  OH-EDA, MASAYOSHI
;  APPLICANT:  UNO, SHINSUKE
;  APPLICANT:  KIKUCHI, YASUFUMI
;  TITLE OF INVENTION: POLYPEPTIDE INDUCING APOPTOSIS
;  FILE REFERENCE: 065678/0106
;  CURRENT APPLICATION NUMBER: US/10/221,131
;  CURRENT FILING DATE:  2003-02-11
;  PRIOR APPLICATION NUMBER: PCT/JP01/01912
;  PRIOR FILING DATE: 2001-03-12
;  PRIOR APPLICATION NUMBER: 09/523,095
;  PRIOR FILING DATE: 2000-03-10
;  PRIOR APPLICATION NUMBER: JP 2000-115246
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: JP 2000-321822
;  PRIOR FILING DATE: 2000-10-20
;  NUMBER OF SEQ ID NOS: 103
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 90
;   LENGTH: 131
;   TYPE: PRT
;   ORGANISM: Mus sp.
;   FEATURE:
;   OTHER INFORMATION: pGEM-M1L
US-10-221-131-90

  Query Match             89.8%;  Score 527;  DB 12;  Length 131;
  Best Local Similarity   90.2%;  Pred. No. 1.1e-44;
  Matches  101;  Conservative    6;  Mismatches    5;  Indels    0;  Gaps    0;

Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:|||||||||||| |||||||||||:|| |||:| |||||||||||||| |||||
Db         20 DVVMTQTPLSLPVSLGDQASISCRSSQSLLHSKGNTYLQWYLQKPGQSPKLLIYKVSNRF 79
```

```
Qy          61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
               ||||||||||||||||||||||||||||||||:||||:| ||||||||:
Db          80 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPYTSGGGTKLEIK 131


RESULT 12
US-10-221-131-92
; Sequence 92, Application US/10221131
; Publication No. US20040073013A1
; GENERAL INFORMATION:
;  APPLICANT: FUKUSHIMA, NAOSHI
;  APPLICANT:  TSUCHIYA, MASAYUKI
;  APPLICANT:  OH-EDA, MASAYOSHI
;  APPLICANT:  UNO, SHINSUKE
;  APPLICANT:  KIKUCHI, YASUFUMI
;  TITLE OF INVENTION: POLYPEPTIDE INDUCING APOPTOSIS
;  FILE REFERENCE: 065678/0106
;  CURRENT APPLICATION NUMBER: US/10/221,131
;  CURRENT FILING DATE:  2003-02-11
;  PRIOR APPLICATION NUMBER: PCT/JP01/01912
;  PRIOR FILING DATE: 2001-03-12
;  PRIOR APPLICATION NUMBER: 09/523,095
;  PRIOR FILING DATE: 2000-03-10
;  PRIOR APPLICATION NUMBER: JP 2000-115246
;  PRIOR FILING DATE: 2000-04-17
;  PRIOR APPLICATION NUMBER: JP 2000-321822
;  PRIOR FILING DATE: 2000-10-20
;  NUMBER OF SEQ ID NOS: 103
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 92
;   LENGTH: 131
;   TYPE: PRT
;   ORGANISM: Mus sp.
;   FEATURE:
;   OTHER INFORMATION: pGEM-M2L
US-10-221-131-92

  Query Match             89.8%;  Score 527;  DB 12;  Length 131;
  Best Local Similarity   90.2%;  Pred. No. 1.1e-44;
  Matches  101;  Conservative    6;  Mismatches    5;  Indels    0;  Gaps    0;

Qy           1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
               |||:||:||||||||| |||||||||||||||| |:|||||||||||||||| |||||
Db          20 DVVMTQSPLSLPVSLGDQASISCRSSQSLVHSNGKTYLHWYLQKPGQSPKLLIYKVSNRF 79

Qy          61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
               |||||||||||| ||||| ||||||||||||||:||||:||||||||||:
Db          80 SGVPDRFSGSGSVTDFTLMISRVEAEDLGVYFCSQSTHVPYTFGGGTKLEIK 131


RESULT 13
US-10-138-505-6
; Sequence 6, Application US/10138505
; Publication No. US20030108546A1
; GENERAL INFORMATION:
;  APPLICANT: FUKUSHIMA, Naoshi
;  APPLICANT:  UNO, Shinsuke
;  APPLICANT:  OH-EDA, Masayoshi
;  APPLICANT:  KIKUCHI, Yasufumi
;  TITLE OF INVENTION: APOPTOSIS-INDUCING SINGLE-CHAIN Fv
;  FILE REFERENCE: 065678/0102
;  CURRENT APPLICATION NUMBER: US/10/138,505
;  CURRENT FILING DATE:  2002-05-06
;  PRIOR APPLICATION NUMBER: US/09/523,095
;  PRIOR FILING DATE: 2000-03-10
;  PRIOR APPLICATION NUMBER: JP 11-63557
;  PRIOR FILING DATE: 1999-03-10
;  NUMBER OF SEQ ID NOS: 40
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
;   LENGTH: 131
;   TYPE: PRT
;   ORGANISM: Mus sp.
US-10-138-505-6

  Query Match             89.8%;  Score 527;  DB 14;  Length 131;
  Best Local Similarity   90.2%;  Pred. No. 1.1e-44;
  Matches  101;  Conservative    6;  Mismatches    5;  Indels    0;  Gaps    0;

Qy           1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
               |||:||:|||||||||| |||||||||||:|| |||:| |||||||||||||||| |||||
Db          20 DVVMTQTPLSLPVSLGDQASISCRSSQSLLHSKGNTYLQWYLQKPGQSPKLLIYKVSNRF 79

Qy          61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
               ||||||||||||||||||||||||||||||:||||:| ||||||||:
Db          80 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPYTSGGGTKLEIK 131


RESULT 14
US-10-138-505-10
; Sequence 10, Application US/10138505
; Publication No. US20030108546A1
; GENERAL INFORMATION:
;  APPLICANT: FUKUSHIMA, Naoshi
;  APPLICANT:  UNO, Shinsuke
;  APPLICANT:  OH-EDA, Masayoshi
;  APPLICANT:  KIKUCHI, Yasufumi
;  TITLE OF INVENTION: APOPTOSIS-INDUCING SINGLE-CHAIN Fv
;  FILE REFERENCE: 065678/0102
;  CURRENT APPLICATION NUMBER: US/10/138,505
;  CURRENT FILING DATE:  2002-05-06
;  PRIOR APPLICATION NUMBER: US/09/523,095
;  PRIOR FILING DATE: 2000-03-10
;  PRIOR APPLICATION NUMBER: JP 11-63557
;  PRIOR FILING DATE: 1999-03-10
;  NUMBER OF SEQ ID NOS: 40
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
;   LENGTH: 131
;   TYPE: PRT
;   ORGANISM: Mus sp.
US-10-138-505-10

  Query Match             89.8%;  Score 527;  DB 14;  Length 131;
  Best Local Similarity   90.2%;  Pred. No. 1.1e-44;
  Matches  101;  Conservative    6;  Mismatches    5;  Indels    0;  Gaps    0;

Qy           1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
               |||:||:|||||||||| |||||||||||:|| |:|||||||||||||||| |||||
Db          20 DVVMTQSPLSLPVSLGDQASISCRSSQSLVHSNGKTYLHWYLQKPGQSPKLLIYKVSNRF 79

Qy          61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
               ||||||||||||| ||||| ||||||||||||||:||||:||||||||||:
Db          80 SGVPDRFSGSGSVTDFTLMISRVEAEDLGVYFCSQSTHVPYTFGGGTKLEIK 131


RESULT 15
US-10-257-864A-95
; Sequence 95, Application US/10257864A
; Publication No. US20040058393A1
; GENERAL INFORMATION:
;  APPLICANT: FUKUSHIMA, NAOSHI
;  APPLICANT:  TSUCHIYA, MASAYUKI
;  APPLICANT:  OH-EDA, MASAYOSHI
;  APPLICANT:  UNO, SHINSUKE
;  APPLICANT:  KIKUCHI, YASUFUMI
;  APPLICANT:  GOTEMBA-SHI, OHTOMO
;  TITLE OF INVENTION: AGONIST ANTIBODIES
;  FILE REFERENCE: 065678-0107
;  CURRENT APPLICATION NUMBER: US/10/257,864A
;  CURRENT FILING DATE:  2003-07-24
;  PRIOR APPLICATION NUMBER: PCT/JP01/03288
;  PRIOR FILING DATE: 2001-04-17
;  PRIOR APPLICATION NUMBER: PCT/JP01/01912
;  PRIOR FILING DATE: 2001-03-12
```

; PRIOR APPLICATION NUMBER: JP2000-115246
; PRIOR FILING DATE: 2000-04-17
; PRIOR APPLICATION NUMBER: JP2000-321821
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: JP2000-321822
; PRIOR FILING DATE: 2000-10-20
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 95
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: amino acid sequence encoded by SEQ ID NO: 29
US-10-257-864A-95

Query Match 89.8%; Score 527; DB 12; Length 245;
Best Local Similarity 90.2%; Pred. No. 2.2e-44;
Matches 101; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

```
Qy          1 DVVVTQTPLSLPVSLGAQASISCRSSQSLVHSNGNTFLHWYLQKPGQSPKLLIYTVSNRF 60
              |||:||:||||||||| |||||||||||||||| |:|||||||||||||||| |||||
Db        134 DVVMTQSPLSLPVSLGDQASISCRSSQSLVHSNGKTYLHWYLQKPGQSPKLLIYKVSNRF 193

Qy         61 SGVPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQTTHVPWTFGGGTKLEIQ 112
              |||||||||||| ||||| |||||||||||||||:||||:||||||||||:
Db        194 SGVPDRFSGSGSVTDFTLMISRVEAEDLGVYFCSQSTHVPYTFGGGTKLEIK 245
```

Search completed: May 12, 2004, 08:22:56
Job time : 298.841 secs